

Branching Into Brilliance

The Case for ChatGPT / AI Use in Utility Vegetation Management

TREES & UTILITIES Conference 2024

Fort Worth, Texas

Branching Into Brilliance



PRESENTED BY:

Phil Swart

Director of Business Development



PRESENTED BY:

Jason Grossman

Manager of Vegetation Management



AI – What Is it?

“ **Artificial Intelligence (AI)** is technology that enables computers and machines to simulate human learning, comprehension, problem solving, decision making, creativity, and autonomy. ”

- IBM

Timeline Generalizing AI



1956

The Dartmouth Summer Research Project on Artificial Intelligence workshop, considered a founding moment for the field of AI, convenes¹²⁵

2012

AlexNet, a convolutional neural network trained on GPUs, achieves a breakthrough performance on the ImageNet benchmark test¹²⁷

2016

AlphaGo beats 18-time world Go champion Lee Sedol¹²⁸

2019

Hugging Face releases V1 of its Transformers NLP library¹²⁹

2021

The European Union proposes the AI Act, the first legislation concerning AI, that would ban, regulate, or allow AI applications based on an assigned risk category¹³⁰

2021

The Beijing Academy of Artificial Intelligence announces Wu Dao 2.0, a multimodal text and image foundation model with 175 trillion parameters¹³⁶

2022

DeepMind introduces Gato, a general purpose agent foundation model that can perform a wide range of tasks across multiple modalities and embodiments¹³⁷

2024

Several new search engines have emerged, featuring foundation-model-based "quick answer" services that give users direct and thorough answers to queries

2027

A prestigious art museum opens a gallery dedicated solely to AI-generated artwork

2030

75% of knowledge workers globally interact with an application, service, or agent powered by foundation models daily

1986

Dave Rumelhart, Geoffrey Hinton, and Ronald Williams publish a landmark paper on back-propagation - laying the foundation for modern neural networks¹³⁸

2015

OpenAI is founded¹³⁹

2017

Google introduces the Transformer AI network architecture in a paper titled "Attention Is All You Need." Transformers now underpin most foundation models¹⁴⁰

2020

OpenAI trains GPT-3 (Generative Pre-trained Transformer), which becomes the world's most sophisticated large language model¹⁴¹

2021

Researchers at Stanford University publish a paper coining the phrase "foundation models"¹⁴⁴

2022

A piece of AI-generated art wins first place in the digital arts category at the Colorado State Fair's fine arts competition¹⁴²

2022

OpenAI releases ChatGPT, a highly sophisticated chatbot¹⁴³

2024

A new generation of virtual assistants is built with transformer-based foundation models. Increased adoption is attributed to more sophisticated and natural language ability

2029

30% of social media ads are autonomously generated using foundation models. Ads must still pass human review

2033

A university deploys a general-purpose foodservice robot, built with a foundation model, to take on odd jobs in the cafeteria. The robot learns new tasks easily, so can fill open roles as needed

2025

A consumer electronics firm introduces ear buds that use an on-device foundation model to translate over 100 languages in near-real time

2023



Generative AI

Generative AI is a type of artificial intelligence that can produce new content. It learns patterns and structures from existing data, and then uses that data to generate new data that mimics the original.

- **Text Generation:** ChatGPT, Co-Pilot, Claude, etc.
- **Image Generation:** DALL-E, Midjourney, Stable Diffusion, etc.

Deep learning techniques: generative models are fed massive amounts of data, and they learn the patterns inside of this data. Once trained, they can generate new content by predicting and recreating the learned patterns.

At The Most Basic Level: *Generative AI is an enchanting tool that can create new, original content based on what it has learned, and what you—the person engaging with it—asks of it.*

Generative Image Models

 Adobe
Firefly Canva Leonardo.Ai DALL-E Stable Diffusion Midjourney

Generative image models are AI systems designed to create new images from textual descriptions, learned patterns, or existing image data. They work by understanding and replicating the visual content through neural networks, producing realistic and creative visuals that can range from simple objects to complex scenes. These models are widely used in fields like design, entertainment, and advertising to generate custom imagery quickly and efficiently.



Large Language Models

A **Large Language Model (LLM)** is an advanced type of AI technology trained on extensive text data to understand and generate human-like language. It functions by predicting the next word in a sequence, enabling it to create coherent and contextually appropriate responses based on the input it receives. LLMs, like those used in ChatGPT, are capable of performing a variety of tasks, such as writing, summarizing, translating, and answering questions, making them powerful tools for streamlining and enhancing various language-related activities.

Benefits of LLMs





- **Text Generation:** LLMs can help draft emails, write reports, create content, or even assist with brainstorming ideas. This makes it a valuable tool for anyone who needs to generate written material quickly and efficiently.
- **Question Answering:** It can provide quick, accurate answers to a wide range of questions, whether it's for learning something new, solving a problem, or getting advice. This makes it a handy assistant for everyday inquiries.
- **Task Automation:** LLMs can automate routine tasks like drafting responses, creating schedules, or summarizing information, helping to save time and streamline daily activities.






Drawbacks to LLMs

- **Potential for Inaccuracy:** LLMs can generate text that appears correct but may contain factual errors or inaccuracies. They do not have true understanding or access to real-time information, so their outputs must be verified, especially in critical contexts.
- **Bias in Responses:** LLMs are trained on large datasets that may contain biases, leading to the generation of biased or inappropriate content. This can result in outputs that reflect or reinforce societal prejudices.
- **Lack of Contextual Understanding:** While LLMs are good at generating text based on patterns, they lack true comprehension and can sometimes provide responses that are contextually off or irrelevant. This limitation means that LLMs can misinterpret complex or nuanced prompts.

Why You Should Care

- **Time-Saving:** Automate routine tasks like writing, summarizing, and answering questions. This frees up time for high-level decision-making and strategic work.
- **Microlearning:** LLMs provide quick, personalized microlearning sessions, making it easy to learn new skills in small, manageable chunks, perfect for fitting into a busy schedule.
- **Productivity Boost:** Streamline administrative activities, reducing manual input. Quickly generate reports, draft emails, and analyze data with minimal effort.
- **Access to Expertise:** Get instant, reliable information and insights on complex topics. Democratize administrative activities, reducing manual input.
- **Enhanced Decision-Making:** Use LLMs to brainstorm ideas, explore creative solutions, and improve problem-solving. Ensure compliance with industry regulations by generating accurate and relevant content.
- **Competitive Edge:** Leverage advanced AI capabilities to stay ahead in an increasingly digital world. Tailor LLMs to meet your specific needs, improving the efficiency and effectiveness of your work.

Name	GPT-4o 	Co-Pilot 	Claude 	Perplexity 
Owner	OpenAI	Microsoft	Anthropic	Jeff Bezos, Nvidia, Susan Wojcicki, etc
Best	Average Use	ChatGPT Alternative	Conversational Capabilities	Internet Search
Pros	<ul style="list-style-type: none"> • Writing • STEM Knowledge • Multi-modal • The Benchmark for LLMs 	<ul style="list-style-type: none"> • OpenAI's LLM • Links Back to Sources • Microsoft Ecosystem 	<ul style="list-style-type: none"> • Most human-like writing • Follow-up Questions 	<ul style="list-style-type: none"> • Link Sources • Simple User Interface • Microlearning • Photos and Graphics • Objective Facts • Combines LLMs
Cons	<ul style="list-style-type: none"> • Banned by some employers 	<ul style="list-style-type: none"> • Attached to Bing • Not Multimodal 	<ul style="list-style-type: none"> • Knowledge Cutoff (2023) • Usage Cap 	<ul style="list-style-type: none"> • Requires Prompt Engineering • Mostly A Search Engine
Mobile App	Yes	Yes	Yes	Yes
Cost	Free & Paid	Free	Free & Paid	Free

Name	JasPer 	You.com 	Gemini 	LLaMA 	Mistral AI_ 
Owner	Jasper AI	Microsoft	Google	Meta (Facebook)	Mistral AI_
Best	Business & Marketing	LLM Testing	Google Users	Internet Search	Writing & Editing
Pros	<ul style="list-style-type: none"> • Social Media (X, LinkedIn, Facebook) • Video Scripts • Brand Voice • SEO Insights 	<ul style="list-style-type: none"> • Free • Cites Sources • Can Switch Between LLMs: ChatGPT, Claude, Gemini, Zephyr 	<ul style="list-style-type: none"> • Free • Google Ecosystem • Great Text Editing • Future: Camera AI to Identify Surroundings 	<ul style="list-style-type: none"> • Small Size • Most Efficient • Most Environmental Concerns 	<ul style="list-style-type: none"> • Open Source • Factually Objective • High Quality Training; Linguists
Cons	<ul style="list-style-type: none"> • VERY Limited Free Trial • Expensive 	<ul style="list-style-type: none"> • Attached to Bing • Not Multimodal 	<ul style="list-style-type: none"> • Cannot Code • Source Citation 	<ul style="list-style-type: none"> • Not as Powerful as Other LLMs • Limited Customization • Non-Commercial 	<ul style="list-style-type: none"> • Prompt Engineering Necessary • Advanced UI • High Costs
Mobile App	No	Yes	Yes	Yes	Yes
Cost	Paid	Free & Paid	Free & Paid	Free	Free & Paid

Guiding the Stars: Precision in Prompts

Clear, concise directions to an LLM are like dark skies on the Bortle Scale—both result in brighter, clearer outcomes.

- OpenAI ChatGPT 4o

1

Excellent
Dark Sky
Site

2

Dark Sky
Site

3

Rural Sky

4

Suburban/
Rural
Transition

5

Suburban
Sky

6

Bright
Suburban
Sky

7

City/
Suburbia
Transition

8/9

City/Inner
City Sky

PROMPTING GUIDE

Describe what you want, not what you don't want. Be clear in your prompt.

- Example: "Don't make the titles too long" is subjective, not specific, and leaves room for vagueness.
- Try: "Each title should be two to five words long."

Notice how the latter is specific in direction? You should guide the LLM with specific instructions to ensure it generates the desired expectation and format.

Prompt Engineering Guide

The 6-Step Prompt Checklist

- Task** – Clearly define your end goal
- Context** – Tailor your responses
- Examples** – Mimic style, structure, tone
- Persona** – Embody a specific expertise
- Format** – Bullet points, markdown, table
- Tone** – Add layer of emotional context

Most Important



Least Important

Prompting Guide

The **APE** Method

Write a scope of work for a utility vegetation management program. **Action**

The scope of work should be written for a field worker audience so that it provides helpful context, guidance, and a baseline to audit our vegetation management contractors. **Purpose**

The document should be written in an engaging, professional, and factual manner. **Expectation**

Prompting Guide

The CARE Method

I am creating a new scope of work (SOW) for our utility vegetation management program. In the past, the SOW only focused on tree pruning. Our contractors have been asking for a more detailed SOW, particularly as it pertains to chemical usage in our integrated vegetation management (IVM) program. **Context**

Create a detailed scope of work that describes expectations for utility line clearance, work planning, herbicide application, tree growth regulators, and how they incorporate in to integrated vegetation management. **Action**

The aim is to provide helpful context, guidance, and a baseline to audit our vegetation management contractors. **Result**

Here is part of a scope of work that exemplifies what I am looking for: tree growth regulators (TGR) are a chemical used to reduce tree response growth. TGR candidates should be fast growing tree species with trunks <20 ft from pole.

Example

Prompting Guide

The CREATE Method

You are a professional negotiation trainer. **Character**

I am seeking a salary increase of 10%. Using the methods of FBI negotiator Chris Voss, write a step-by-step guide on how to prepare for my salary negotiation. Please also include a one-page justification I can use to initiate the salary increase conversation. **Request**

Use the tonality and style of the following Chris Voss quote: "The question isn't how you can get more money, but how you can be involved in strategic projects that are critical to the company's future." **Example**

Use bullet points. **Adjustment**

Respond with bullet points inside a spread sheet. **Type of Output**

The target audience is my manager, who will find himself stuck in the middle because he will have to advocate on my behalf to his boss. **Extras**

Prompting Guide

The CREATE Method

Here is how it would look when typed into ChatGPT.
Font colors are for identification only.

You are a professional negotiation trainer. I am seeking a salary increase of 10%. Using the methods of FBI negotiator Chris Voss, write a step-by-step guide on how to prepare for my salary negotiation. Please also include a one-page justification I can use to initiate the salary increase conversation. Use the tonality and style of the following Chris Voss quote: "The question isn't how you can get more money, but how you can be involved in strategic projects that are critical to the company's future." Use bullet points. Respond with bullet points inside a spread sheet. The target audience is my manager, who will find himself stuck in the middle because he will have to advocate on my behalf to his boss.

The CREATE Method: Results

Step	Action
1. Research	Gather data on market salaries for your position, industry, and location. Prepare specific examples of how your contributions have impacted key projects and the company's bottom line.
2. Strategic Framing	Position your request in terms of involvement in strategic, high-impact projects. Highlight how your continued growth aligns with the company's future goals.
3. Empathy Mapping	Understand your manager's position and challenges. Anticipate concerns he might have when advocating for you to his boss and prepare to address them.
4. Tactical Questions	Prepare open-ended questions that encourage dialogue, such as: "How can I contribute more to projects that are critical to our team's success?" Use questions to explore how your role can evolve to meet company needs.
5. Mirroring	Practice mirroring your manager's words to build rapport and make him feel heard. - Example: If your manager says, "Budgets are tight," you might respond with, "Budgets are tight... How can we work within those limits?"
6. Labeling	Label any potential concerns your manager might have: "It seems like advocating for a raise might be challenging given our budget constraints." Use labeling to acknowledge his position and show empathy.
7. Anchoring	Introduce the idea of a 10% increase by tying it to your strategic value: "Given my role in our recent success, I believe a 10% increase reflects my contribution and aligns with the company's future direction."
8. Prepare a Script	Develop a concise script to open the conversation, framing your request in the context of strategic growth and company goals. Example: "I've been reflecting on how I can further support our team's strategic objectives..."
9. Practice Tonality	Practice delivering your points with confidence, using a calm and collaborative tone. - Focus on being assertive but not aggressive, emphasizing partnership in achieving mutual goals.
10. Expectation Management	Set realistic expectations for the conversation, understanding that your manager may need time to discuss with higher-ups. Be prepared for follow-up discussions and show willingness to work together on a solution.

LLM Outputs

"In one paragraph, describe utility vegetation management"

Claude	Co-Pilot	ChatGPT
<p>Utility vegetation management is the practice of maintaining and controlling plant growth around power lines, pipelines, and other utility infrastructure. This process involves trimming trees, removing hazardous vegetation, and managing plant species to prevent interference with utility services and reduce the risk of outages or damage. Vegetation management teams use various techniques, including manual cutting, mechanical equipment, and herbicide application, to create and maintain safe clearance zones around utility assets. The goal is to balance the need for reliable utility services with environmental conservation and aesthetic considerations, often requiring coordination between utility companies, local governments, and property owners.</p>	<p>Utility Vegetation Management (UVM) is a critical practice for electric utilities. It represents both the largest preventive maintenance expense and a key driver of system reliability. By managing vegetation around power lines, UVM helps prevent outages caused by tree interference, reduces wildfire and storm risks, and ensures the safety and compliance of electrical networks. It's a delicate balance between maintaining service reliability, controlling costs, and preserving tree health and aesthetics under diverse and sometimes challenging conditions.</p>	<p>Utility vegetation management involves the systematic control and maintenance of trees, shrubs, and other vegetation around utility infrastructure, such as power lines and pipelines, to ensure reliable and safe service. This practice includes activities like tree trimming, removal of hazardous vegetation, and the application of growth regulators to prevent outages and reduce fire risks. By maintaining clearances and minimizing vegetation interference, utility vegetation management helps prevent service disruptions, enhances public safety, and ensures compliance with regulatory standards.</p>

Condensing Documents

Condensing a 12-page document down to one paragraph:

UTILITY BEST MANAGEMENT PRACTICES TREE RISK ASSESSMENT AND ABATEMENT FOR FIRE-PRONE STATES AND PROVINCES IN THE WESTERN REGION OF NORTH AMERICA



- ⑧ The Utility Best Management Practices (BMPs) for Tree Risk Assessment and Abatement in fire-prone states and provinces in the Western region of North America focus on standardizing tree risk inspections to identify and address hazard trees that may threaten utility infrastructure. The BMPs recognize the challenges of managing large tree populations and emphasize the importance of implementing a practical and effective risk management approach rather than attempting to eliminate all risks. The guidelines cover patrol methods, inspection frequencies, assessment procedures, worker qualifications, and documentation practices, tailored to each utility's specific needs and regulatory requirements. The goal is to manage tree-related risks in forested and heavily wooded areas, particularly where resources are limited and abatement efforts may be constrained by property owner intervention. The BMPs were developed through a collaborative process involving various stakeholders to ensure they address the unique challenges of utility vegetation management in high-risk fire areas.



Message ChatGPT



Safety Incident Review

With ChatGPT Brainstorming

“Kershaw Trimmer Crew was trimming out vegetation along the powerline and our operator was trimming close to powerline pole and accidentally hit it with the saw blade. The pole was old and somewhat rotten, so the blade went through it without much hesitation. The sun was in his eyes, and he lost perception of exactly where the saw blade was. We determined with the already rotten state of the pole and an additional cut in it that it needed to be reported. I sent the information to Line Ops Manager, and he sent someone from his 211 team to assess the situation. They agreed that the pole needed changed out and performed that task.” - Incident Report

- What specific measures are in place to ensure that operators can clearly see their work area and avoid obstructions, especially when sunlight might affect visibility?
- Are there any additional protective gear, spotters or equipment that could help mitigate this issue?
- The incident highlights the vulnerability of older, decaying infrastructure. How often are poles inspected for signs of rot or structural weakness, and what protocols are followed when such weaknesses are identified before starting trimming operations?
- The minimum 3’ distance rule from structures is crucial. It would be beneficial to reinforce this rule through regular safety drills or refresher training sessions. Could we implement a more frequent training schedule to ensure all operators are consistently reminded of these critical safety practices or note on the pre-job briefing there is brush within 3ft of the pole on this job?

- ChatGPT 4 “Review this safety incident and provide 5 questions, comments, or concerns.”

Contractor Communications

With ChatGPT Brainstorming

Compose 10 questions for a new tree trimming contractor starting up in the new year. Include concerns with low overheads, ramping up equipment and employees, acclimation to a new system, adaption to new software and any other common issues with starting up a new contractor on a new system. - ChatGPT 4 prompt

Here are 10 questions for a new tree trimming contractor starting up in the new year:

- 1. Overhead Costs:** What strategies have you implemented to manage overhead costs, and how will you ensure they don't compromise service quality?
- 2. Equipment Ramp-Up:** How will you quickly acquire and mobilize the necessary equipment to meet our contract requirements?
- 3. Employee Recruitment and Training:** What is your plan for recruiting and training employees to meet the demands of this contract?
- 4. Acclimation to Our System:** How do you plan to acclimate your team to our existing systems and processes?
- 5. Software Adaptation:** How familiar is your team with our required software, and what steps will you take to ensure a smooth transition?
- 6. Scaling Operations:** What measures will you take to scale your operations efficiently as the workload increases?
- 7. Compliance and Safety:** How will you ensure compliance with our safety standards during the initial ramp-up period?
- 8. Risk Management:** What contingency plans do you have in place for potential challenges during the start-up phase?
- 9. Communication Plan:** How will you maintain clear and consistent communication with our team during the onboarding process?
- 10. Quality Control:** What systems will you put in place to monitor and maintain the quality of work from day one?

Budget Cuts

Prompt: Explain Clausewitz's Three R's and then provide an explanation of how they would apply to utility vegetation management and finally explain the risk associated with cutting the budget reducing resources and how that affects the reward components

"Clausewitz, a Prussian general and military theorist, is best known for his work *On War* (Vom Kriege). The "Three R's" of Clausewitz aren't explicitly outlined in his writings but are a conceptual interpretation often used to analyze strategic thinking. The Three R's refer to **Restraint, Risk, and Reward**, crucial elements in strategic decision-making.

...

Risk Associated with Cutting the Budget and its Impact on Rewards

When the budget for utility vegetation management is cut, resources are reduced, which increases the risk component. This reduction in resources might lead to less frequent or less thorough inspections, delayed responses to vegetation encroachment, and fewer preventative measures. Here's how this affects the Three R's:

1. Increased Risk:

- With fewer resources, the risk of failing to manage vegetation effectively increases. This could lead to more frequent power outages, a higher likelihood of fires, and potential regulatory fines or legal liabilities. The risk of catastrophic events, such as widespread wildfires or prolonged outages, becomes more pronounced.

2. Diminished Reward:

- The potential rewards are also diminished when resources are cut. The utility may save money in the short term, but the long-term rewards of safe and reliable operations, community trust, and regulatory compliance are jeopardized. The short-term cost savings might be far outweighed by the long-term costs associated with increased risks, including potential disaster recovery, legal liabilities, and reputational damage.

3. Challenges with Restraint:

- Maintaining proper restraint becomes more challenging with fewer resources. The pressure to do more with less might lead to either too much restraint (doing too little, increasing risk) or too little restraint (cutting corners, increasing risk in another way). Balancing these factors becomes increasingly difficult as the resources available for strategic decision-making shrink.

In summary, cutting the budget and reducing resources for utility vegetation management increases risks, potentially reducing the rewards associated with effective management. It can make maintaining the right level of restraint challenging, leading to either overextension in some areas or insufficient action in others, both of which can compromise safety, reliability, and overall success."

Justifying A Hiring Need

Prompt: Write a business case for a full-time coordinator to help schedule jobs, process invoices, and ensure accurate data during a companies transition to SAP.



Executive Summary

As our company embarks on the transition to the SAP (Systems, Applications, and Products) platform, it is essential to ensure that all processes, from job scheduling to invoice processing and data management, are handled with the utmost accuracy and efficiency. The complexity of the SAP implementation necessitates dedicated resources to manage these critical tasks. This business case proposes the hiring of a full-time coordinator to oversee job scheduling, invoice processing, and data accuracy during this transition. The coordinator's role will be instrumental in ensuring a smooth transition to SAP, minimizing disruption to operations, and optimizing the benefits of the new system.

Problem Statement

Transitioning to SAP is a significant undertaking that involves multiple moving parts, including the alignment of job schedules, accurate processing of invoices, and meticulous data migration and management. Currently, these tasks are handled by various team members who are already balancing other responsibilities. The risk of errors, delays, and inefficiencies is high, which could lead to costly disruptions and undermine the success of the SAP implementation.

Without a dedicated coordinator:

- **Job Scheduling:** There is a risk of misaligned schedules, leading to bottlenecks, missed deadlines, and inefficiencies.
- **Invoice Processing:** Inaccurate or delayed processing of invoices could disrupt cash flow, damage vendor relationships, and lead to financial inaccuracies.
- **Data Accuracy:** Incorrect or incomplete data migration could result in operational challenges, reporting errors, and decision-making based on flawed information.

Proposed Solution

To mitigate these risks, it is recommended that a full-time coordinator be hired to focus exclusively on the critical tasks of job scheduling, invoice processing, and data accuracy. This role will ensure that:

- **Job Schedules** are effectively coordinated, with all departments aligned to meet key milestones during the SAP transition.
- **Invoices** are processed accurately and on time, maintaining smooth financial operations and solid vendor relationships.
- **Data Migration** is carefully managed, ensuring that all data transferred to SAP is accurate, complete, and fully integrated into the new system.

Role Responsibilities

The proposed coordinator will:

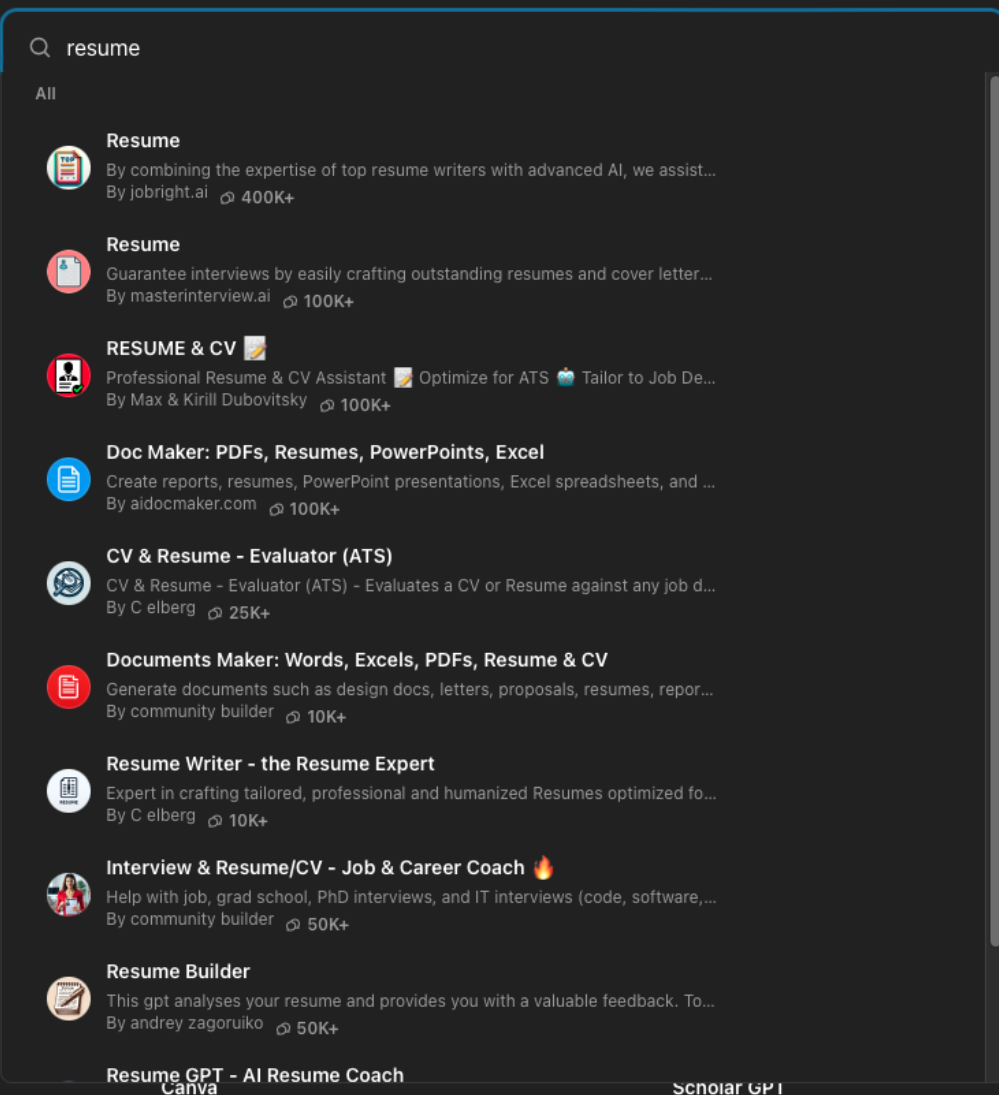
1. **Job Scheduling:** Develop and maintain a comprehensive job schedule that aligns with the SAP implementation timeline, coordinating with all relevant departments to ensure that tasks are completed on time and resources are allocated efficiently.
2. **Invoice Processing:** Manage the end-to-end process of invoice handling during the transition, ensuring accuracy in data entry, timely approvals, and correct alignment with the SAP system. This includes training and guiding other staff members on the new procedures.
3. **Data Accuracy:** Oversee the data migration process to SAP, ensuring that all data is correctly mapped, validated, and transferred without errors. The coordinator will work closely with IT and departmental teams to monitor data integrity and resolve any issues promptly.

Discover and create custom versions of ChatGPT that combine instructions, extra knowledge, and any combination of skills.

Resume Creation

Prompt:

I've spent the last **[3]** years working as a **[Ground Worker]** and now I'm interested in pivoting to **[Tree Growth Regulator Specialist]**. I've got a lot of transferable skills such as **[attention to detail, knowledge of utility vegetation management, understanding]** and I recently completed a **[ISA Certified Arborist]**. Please use this information and the following job description I will supply to write a one-page resume that emphasizes skills like **[communication]** and **[tree identification]**.



A screenshot of a GPT search interface. At the top, there is a search bar with the text 'resume'. Below the search bar, there are several GPT cards. Each card has a small icon, a title, a brief description, and the creator's name and follower count. The cards are: 1. 'Resume' by jobright.ai (400K+), 2. 'Resume' by masterinterview.ai (100K+), 3. 'RESUME & CV' by Max & Kirill Dubovitsky (100K+), 4. 'Doc Maker: PDFs, Resumes, PowerPoints, Excel' by aidocmaker.com (100K+), 5. 'CV & Resume - Evaluator (ATS)' by C elberg (25K+), 6. 'Documents Maker: Words, Excels, PDFs, Resume & CV' by community builder (10K+), 7. 'Resume Writer - the Resume Expert' by C elberg (10K+), 8. 'Interview & Resume/CV - Job & Career Coach' by community builder (50K+), 9. 'Resume Builder' by andrey zagoruiko (50K+). At the bottom of the screenshot, there are two more items: 'Resume GPT - AI Resume Coach' and 'Scholar GPT'.

Objective

Dedicated and detail-oriented professional with 3 years of experience as a Ground Worker, seeking to leverage my expertise in utility vegetation management and newly acquired ISA Certified Arborist credential to excel as a Tree Growth Regulator Specialist. Committed to promoting safe and sustainable vegetation management through effective communication, precise tree identification, and specialized knowledge of tree growth regulation.

Professional Experience

Ground Worker

[Company Name], [City, State]

[Dates of Employment]

- **Utility Vegetation Management:** Assisted in the safe and efficient clearance of vegetation around utility lines, ensuring compliance with industry standards and regulations.
- **Attention to Detail:** Conducted thorough site assessments to identify potential hazards and areas requiring intervention, leading to a reduction in service interruptions.
- **Communication:** Collaborated with team members and utility representatives to develop and implement effective vegetation management strategies, enhancing operational safety.
- **Safety Compliance:** Adhered to safety protocols and best practices in the operation of equipment and tools, contributing to a workplace safety record with zero incidents.
- **Tree Identification:** Applied knowledge of tree species and growth patterns to select appropriate pruning methods, maintaining the health and appearance of trees.



Message Resume



ChatGPT can make mistakes. Check important info.

Resume Creation



Results:

ChatGPT created a baseline template to build off. While details are lacking, this type of use for ChatGPT becomes plug-and-play by incorporating more details about your current job, experience, goals, and expectations.

Interview Question Prep

3. Describe a situation where you had to manage a difficult customer or stakeholder during a vegetation management project. How did you handle it?

Sample Answer: "During a past project, I had to coordinate with a local municipality that was concerned about the impact of our pruning activities on the aesthetic appeal of their community. I approached the situation by scheduling a meeting with the stakeholders, where I presented our plans, explained the necessity of the work for safety and reliability, and offered to adjust our approach without compromising safety standards. By actively listening to their concerns and working collaboratively to find a solution, we were able to reach a compromise that satisfied both the municipality and the project's safety requirements. The key was maintaining open communication and demonstrating a willingness to collaborate."

4. How do you manage and prioritize multiple projects or requests in a high-pressure environment?

Sample Answer: "Managing multiple projects requires strong organizational skills and the ability to prioritize effectively. I start by assessing the urgency and impact of each project or request, using criteria such as safety risks, compliance requirements, and customer needs. I then create a detailed schedule that includes milestones and deadlines for each project, ensuring that I allocate resources efficiently. Regular communication with team members and stakeholders is essential to stay on track, and I use tools like spreadsheets and project management software to monitor progress. In high-pressure situations, I stay focused on the key objectives and remain adaptable, ready to adjust plans as needed to meet goals."

Interview Question Prep

Prompt:

My goal is to be ready to address potential concerns or objections that my employer might have during the salary negotiation. Based on the information provided so far, I believe the values I bring to the business are being low maintenance, innovative and efficient. Assume the role of a salary negotiator and open a dialogue where you ask questions, one by one, to understand why I should receive a salary increase. After every response I give, mark it out of 10 and suggest an improvement before asking another question. Continue this back and forth until I say STOP, and then summarize the conversation so I can revise and be prepared for the meeting.

Question 1:



Rating: 8/10

How have your past experiences prepared you to oversee the strategic direction for distribution maintenance departments, as required in this Director role?

Please share your response.

My past experiences have uniquely equipped me to oversee the strategic direction of distribution maintenance departments, particularly in high-stakes environments. As the Manager of Vegetation Management for an electric utility, I've been responsible for managing a multi-million dollar budget while ensuring compliance, safety, and reliability. This role has required me to think strategically, especially when balancing the need for innovative solutions with budget constraints.

One of the key ways I've prepared for a role like this is through optimizing our maintenance cycles. I led the shift from a traditional maintenance approach to a unit-based model, which not only improved reliability by tightening our cycle for herbicide and TGR applications but also drastically reduced outages caused by vegetation. This shift demonstrated my ability to identify inefficiencies, develop strategic solutions, and implement them successfully across a large system.

Moreover, my experience in maintaining a flat budget for several years, even during significant organizational changes like the SAP integration, speaks to my ability to manage resources effectively

Strengths:

- **Strategic Thinking:** You've clearly demonstrated your ability to think strategically and manage large-scale projects.
- **Innovation and Results:** You highlighted specific innovations, like the shift to a unit-based model, and their positive impact on the organization.
- **Budget Management:** Successfully maintaining a flat budget during significant changes is a strong point.

Suggestions for Improvement:

- **Emphasize Leadership:** While you mentioned strategic thinking and project management, more emphasis on your leadership skills—specifically how you've guided teams or mentored employees—would strengthen your response.
- **Tie to Job Requirements:** Explicitly connect your experience with the specific duties outlined in the job description, such as developing long-range goals and condition-based maintenance programs.

Revised Example: "My experience as Manager of Vegetation Management has been instrumental in preparing me to oversee the strategic direction of distribution maintenance departments. In this role, I've led a team through significant transformations, including the implementation of a unit-based maintenance cycle that improved system reliability and reduced outages. I managed a multi-million dollar budget, ensuring that we met all compliance, safety, and reliability standards without exceeding our financial limits.

A key achievement was maintaining budget consistency during the SAP integration, which required meticulous planning and resource management. Additionally, my leadership was recognized when our department received the ROWSCA award for best management practices. I believe these experiences have equipped me not only with the strategic foresight but also the



Question 2:

How do you plan to implement technology-driven solutions to improve organizational performance and operational efficiency in this role?

Please share your response.



 Message Resume

ChatGPT can make mistakes.



Write a short bedtime story about an 8 year old boy named Eben and his 5 year old sister Aleah who like riding bikes, hanging out at the creek and eating ice cream. Have them go on an adventure, solve some kind of mystery and celebrate with ice cream.

Once upon a time, in a small, quiet town nestled between rolling hills and a shimmering creek, there lived a brother and sister who loved adventures. Eben, 8 years old, and his little sister Aleah, 5, were inseparable. They spent their days riding their bikes along the winding paths, exploring the lush woods near their home, and cooling off by the creek, where they would skip stones and splash each other.

One sunny afternoon, after a morning of bike riding, Eben and Aleah decided to visit their favorite spot by the creek. As they approached, they noticed something strange: a trail of glittering pebbles leading into the woods. "Where do you think it leads?" asked Aleah, her eyes wide with excitement.

"I don't know," said Eben, "but it looks like a mystery! Let's follow it!"

The two hopped off their bikes and followed the trail of pebbles deeper into the woods. The sunlight filtered through the trees, casting dappled shadows on the forest floor. The trail twisted and turned until it led them to a hidden clearing they had never seen before. In the center of the clearing was a small, old wooden chest, half-buried in the ground.

"It's a treasure chest!" whispered Aleah, bouncing on her toes.

Eben carefully brushed away the dirt and opened the chest. Inside, they found an old, tattered map and a shiny golden key. The map showed a drawing of the creek, their town, and a big "X" marked on a spot not far from where they were standing.

"Looks like there's more to this adventure," Eben said, grinning. "Let's find out what the 'X' is for!"

They followed the map, using the creek as their guide. The map led them to a giant, ancient oak tree that stood at the edge of the water. "The 'X' is right here," said Aleah, pointing to the base of the tree.

Eben knelt down and spotted a small keyhole hidden among the tree roots. He took the golden key from the chest and slid it into the keyhole. With a soft click, a secret door at the base of the tree swung open, revealing a hidden compartment.

Inside, they found a collection of colorful, hand-painted stones, each one decorated with a different animal. There was also a note, written in neat, curly handwriting: "To the brave adventurers who find these stones, these stones are magical. Place them in the creek, and





Swart



Grossman



SWART-GROSSMAN LLM PYRAMID OF GREATNESS



Thanks!

Questions?



Phil Swart
p.swart@clearwayindustries.com



Jason Grossman
jason.grossman@libertyutilities.com