SAI TEJA MEKA

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PROFESSIONAL SUMMARY

Ambitious AI systems builder with 4+ years of analytical experience. Built LLM evaluation systems and engineered content classification pipelines, achieving 85%+ consistency with human review. Relentlessly focused on precision, logical reasoning, and systematic fact-checking. Driven by the belief that meaningful AI development requires rigorous human feedback at every layer—viewing AI as an infinite space (∞) demanding continuous refinement and human wisdom.

SKILLS

- **AI Agent & Systems Design:** Building modular AI agents, generative interfaces, and interactive learning platforms to bridge theory with real-world impact, n8n platform for building no-code AI agents.
- **Machine Learning & Deep Learning:** Expertise in LLMs, neural networks, transformers, and hands-on deployment using GPT-4, Hugging Face, TensorFlow, and PyTorch.
- **Data Analytics & Automation:** Advanced Python, Power BI, and SQL—driving end-to-end automation for ETL, KPI dashboards, and predictive analytics.
- **Prompt Engineering & NLP:** Mastering iterative prompt design and real-time language model synthesis for custom, high-performance applications.
- **Full-Stack & Cloud Engineering:** Rapidly deploying solutions across Python, JS, HTML/CSS, REST APIs, AWS, GCP, Vertex AI, and Docker.
- **Visualization, Reporting & Certifications:** Creating intuitive dashboards and data tools (Power BI, Tableau, Streamlit) backed by AWS and IBM AI certifications.

PROJECT EXPERIENCE

LLM-Powered Content Classification & Moderation Assistant (OpenAI GPT-4 API, LangChain, Python, Hugging Face, Scikit-learn, Streamlit, Prompt Engineering)

- Built a modular, agent-driven workflow for content classification—prompt engineering GPT-4 and Claude models with few-shot and chain-of-thought approaches to reliably label video transcript segments (e.g. "Safe for Ads", "Satirical", "Explicit"), achieving 85%+ consistency with human review.
- Orchestrated multi-model prompt templates with LangChain—automating side-by-side output comparison and system-level reasoning for policy compliance in streaming/ad environments.
- Simulated dynamic compliance checks and real-world decision logic—experimenting with agent adaptation to changing ad policies and contextual viewer standards.

Custom AI Persona & Interactive Agent System ("Deep Blue") (Python, OpenAI API, Web Technologies, Prompt Engineering)

- Built a personalized AI agent/interface named "deep blue" that responds to user calls, displays stats, and synthesizes knowledge from user input.
- Engineered interface for real-time learning and information synthesis, integrating user feedback and knowledge enhancement modules. Deployed locally and on the cloud, enabling seamless agent operation across environments.
- Designed extensible agent architecture, supporting iterative upgrades and new knowledge modules.

ScholarGPT – Modular AI Learning System (Crew AI, OpenAI API, Web Speech API, Prompt Engineering)

- Designed a modular, agent-powered study companion merging Crew AI's orchestration with OpenAI's API—crafting a team of specialized agents (summarizer, quiz generator, explainer) built for rapid experimentation and iterative learning.
- Engineered adaptive, browser-native workflows for instant note summarization, flashcard creation, and concept deep-dives—empowering users to personalize, remix, and extend their learning process on the fly.
- Focused on hands-on usability, modular design, and continuous system improvement—turning academic support from a static toolset into an evolving, user-driven learning platform.

AI-Powered Renewable Energy Resource Balancing Simulator (Python, NumPy, Scikit-learn, Matplotlib, Streamlit):

- Developed a probabilistic AI simulator modeling energy generation from solar, wind, hydro, and battery storage systems based on variable weather conditions.
- Simulated and optimized energy output and storage balancing through rule-based and ML-enhanced forecasting.
- Incorporated ethical AI principles to promote responsible resource use and environmental impact awareness.

PROFESSIONAL EXPERIENCE

PepsiCo Capstone Graduate Project, Valhalla, NY   **August 2024 – December 2024**
Data Science Consultant

- Developed predictive analytics models to optimize packaging performance, cutting material waste, and aligning with sustainability goals.
- Built statistical simulations that improved R&D decision-making speed by 25%.
- Designed AI-driven experiments to evaluate packaging configurations, enabling faster data-driven product development.

Savant Instruments Pvt. Ltd, Hyderabad, Telangana, India
Data Analyst   **July 2022 – July 2023**

- Engineered live Power BI dashboards and AI-powered reporting pipelines, empowering teams to see campaign success in real time and cut reporting overhead by 40%.
- Automated Python and SQL workflows, delivering smarter, scalable forecasting engines with 25% better accuracy and full lifecycle traceability.
- Devised and analyzed experimental A/B campaigns, bridging data with business strategies—always pushing for more insightful, faster results.

Junior Data Analyst   **June 2020 – July 2022**

- Automated data pipelines with Python to ensure 95% accuracy, minimizing errors and enhancing regulatory compliance.
- Migrated manual workflows into cloud-connected platforms, enabling centralized access and real-time insights.
- Partnered cross-functionally to deliver AI-powered reporting solutions in fast-paced environments.

EDUCATION

University of Connecticut (Hartford, CT)   **August 2023 – May 2025**
Master of Science in Business Analytics and Project Management (Data Science)
|Generative AI, Statistics, Data Science using Python, Big Data and Cloud, Predictive Modeling, Data Mining and Business Process Modeling (Text Mining and Time Series Forecasting), Project Management|

VNR Vignana Jyothi Institute of Engineering and Technology (Hyderabad, TS, India)   **August 2018 – July 2022**
Bachelor of Engineering in Electronics and Communication