Amish Kakka

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EDUCATION

Masters in Software Engineering **August 2024 – May 2026**
Arizona State University | GPA: 3.1 / 4.0

- Coursework: Software Project Management, Data Science, Software Verification and Testing

Bachelors in Computer Science Engineering **August 2020 – June 2024**
Manipal University Jaipur | GPA: 3.23 / 4.0

- Coursework: Data Structures and Algorithms, Image Processing, Deep Neural networks

EXPERIENCE

Software Intern **October 2023 - May 2024**
Statcon Electronics India Limited **Noida, India**

- Optimized data workflows, improving solar inverter analysis accuracy by identifying faulty data.
- Developed Python software for hybrid inverter communication, enhancing system integration.
- Reduced calibration time of inverters **from 20 minutes to under 7 minutes**, resulting 30% efficiency.

TECHNICAL SKILLS

- Programming Languages: Python, C++, SQL, Embedded C
- Frameworks and Tools: Gradio, Streamlit, TensorFlow, PyTorch, Docker, MySQL, AWS, GitHub
- Concepts: Large Language Models (LLMs), Machine Learning, Image Processing, Computer Vision, Agile Development

PROJECTS

Document Summarizer Application: Python, Gradio, Lang Chain - Link

- The goal of project is to interact with a Large Language Model (LLM) to query any document.
- Accomplished using Gemini 2.0 model accessed using Google's GenAI module to process document, and Chroma DB to store and query embeddings generated form model.
- Designed interface using Gradio as it is lightweight and easy to deploy.

Stock Screener Application: Python, Streamlit, AWS, Docker – Link

- Developed as a website using Streamlit, has stock listings from the NASDAQ exchange. Any **query is processed under 1 minute** to filter through almost 4000 stocks.
- Extracted detailed financial and market data for each stock, and allows users to filter stocks based on criteria such as market capitalization, return on equity (ROE), debt-to-equity ratio, and more.
- Hosted application on an **AWS EC2 instance**.

Clustering Images without labels: Tensorflow, Scikit-learn

- Aimed to create clusters of images without leveraging labels. To cluster efficiently, traditional image processing techniques were performed.
- Standard clustering algorithms such as KMeans with Cosine, DBSCAN, and Spectral Clustering were implemented, and modified versions were explored to enhance performance.

CERTIFICATIONS

- DeepLearning.AI TensorFlow Developer Specialization
- Custom Models, Layers, and Loss Functions with TensorFlow
- Neural networks and Deep learning