KOLAVENNU HIMAJA

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EDUCATION

Bachelor of Technology - Computer Science (AI & ML Specialization) Jul 2021 – Jun 2025
Vellore Institute of Technology | CGPA – 8.0

SKILL SUMMARY

Languages: Python, SQL, MYSQL
Framework: Scikit – learn, PyTorch, NumPy, Pandas
Tools: Microsoft SQL server, Tableau, Qlik View, Microsoft Excel, Arduino, Power BI, matplotlib
Skills: Statistical Analysis, Data mining, Databases management, Data wrangling, NLP, CV
Soft skills: Communication Skills, Leadership, Team work, Event Management

Experience

AI Database Associate Jan 2024 – Jun 2024
cosmic360.ai

- Improved **data management** was achieved through **meticulous database design**, complemented by stringent data preprocessing processes to ensure accuracy. User-friendly documentation was created, accompanied by weekly data visualizations, facilitating smooth database integration and supporting the team in making informed, **data-driven decisions.**
- Designed and implemented a machine learning-driven database solution, reducing data retrieval time by **30%** and improving accuracy by employing **Python** and **SQL** for **data processing** and **analysis.**

Machine Learning Intern Sep 2023 – Oct 2023
Suvidha Foundation

- Leveraged **machine learning** to solve real-world challenges by developing and deploying machine learning models. **Analyzed big data** to identify key trends and patterns, generating actionable insights that drove a **12% increase** in desired outcomes.
- Implemented and tested machine learning models using **Python** and **TensorFlow**, achieving a **15% increase** in prediction accuracy by fine-tuning algorithms and optimizing data preprocessing techniques over a **1-month period**.

PROJECTS

Mental Health Analysis through Speech Emotion Recognition
Python, NLP, Google Text-to-Speech API, SQL

- Developed a **mental health analysis tool** utilizing **natural language processing (NLP)** and **speech emotion recognition** to identify emotions from chat and audio interactions. Achieved a **35% improvement in early detection of emotional distress** by leveraging machine learning algorithms and integrating seamlessly with telehealth platforms to provide personalized therapy recommendations and early intervention strategies for enhanced mental well-being.

Perhaps Imagine - Image Out Painting
Python, OpenAI API, TensorFlow

- **Created an image out painting tool** using **Python** and **TensorFlow** to extend images beyond their original borders, enhancing artistic creativity and enabling users to visualize imaginative scenarios. Engineered the "Perhaps Imagine" application with generative AI capabilities, leading to a **40% increase** in creative project completions and significantly improving user engagement in visual storytelling.

Good Samaritan Tracker
Python, Geopy, scikit-learn, SQL

- **Built a predictive machine learning model** using Scikit-learn to analyse real-time data from safety gadgets, achieving an 87% accuracy in emergency prediction and optimizing performance with Grid Search CV. **Geolocation tracking** mechanism with **GPS and GSM** technologies, enabling real-time monitoring on interactive maps and enhancing situational awareness with a **95% accuracy** in location data retrieval**.**

CERTIFICATION

- Applied machine learning in python, Coursera
- Business analysis, Forage
- Accenture - Data analytics and visualization, Forage
- AWS Certified Cloud Practitioner (CCP)

Co- Curricular

- **Research Paper:** Authored and presented research at **ICSEE'24** on**" Computer Vision-based Crop Height Estimation using Contour Detection Technique**," showcasing expertise in computer vision and data analysis
- **Hackathons:** Hackathon in Advitya'24, AMEX Makeathon
- **Girl Script summer of code**: Mentored at GSSoc'24, guiding students in project development and technical skills
- **Community Lead:** Managed club events (**600+ attendees**), coordinating vendors, logistics & finances