LOKESH VINNAKOTA

Cincinnati, Ohio | lokeshvinnakota5@gmail.com | linkedin.com/in/c | 513-283-4293

Career Objective

Detail-oriented Computer Science graduate pursuing a Master's degree, with experience in machine learning, deep learning, and Generative AI applications. Proficient in Python, ML frameworks, and cloud technologies, with a strong interest in building practical AI-driven solutions. Looking for an entry-level or internship role to apply technical skills and grow in a collaborative environment.

Experience

Gen AI Intern **May 2025– Aug 2025**
Ideabytes (Onsite) *Hyderabad, India*

- Built a Streamlit-based application integrating OpenAI and Amazon Bedrock LLMs for multi-model comparison (Mistral,LLaMA3, Claude)
- Implemented Retrieval Augmented Generation (RAG) with FAISS for Q&A over scraped website content.
- Enabled multimodal interaction using SpeechRecognition (voice-to-text) and TTS.
- Developed multilingual translation & spelling correction pipeline with Deep Translator and TextBlob.
- Visualized embeddings through PCA and Plotly for improved interpretability.
- Deployed on AWS with secure API integrations, ensuring reliable environment handling.
- Designed a user-friendly interface for the Streamlit app, enhancing accessibility and user engagement.

Data Science Intern **January 2024 – April 2024**
Vignan's Foundation for Science Technology and Research (On-site) *Guntur, India*

- Mentored students in Python, machine learning concepts, and data structures, helping them solve and debug complex problems.
- Conducted hands-on lab sessions on deep learning frameworks (TensorFlow, Keras) data preprocessing techniques for ML projects.
- Graded assignments and provided constructive feedback on ML model implementations, ensuring high academic standards.
- Assisted faculty in lectures on AI/ML topics, including supervised/unsupervised learning, neural networks, and ensemble methods.

Education

Master of Engineering in Computer Science **Aug 2024 - Present**
University of Cincinnati *GPA: 3.7/4*

Bachelor of Technology in Computer Science **Aug 2020 - May 2024**
Vignan's Foundation for Science Technology and Research *CGPA: 3.48/4*

Projects

Rice Leaf Disease Prediction using Transfer Ensemble Deep Learning Models **Dec 2023 - May 2024**

- Built an ensemble model (VGG16, InceptionV3, MobileNet) achieving 97% accuracy in classifying rice leaf diseases.
- Preprocessed a dataset of 16,000 high-resolution images, removing outliers and splitting data into 80:20 train-test sets.
- Leveraged transfer learning to fine-tune pre-trained models, delivering robust performance across diverse conditions.
- Designed a user-friendly web interface for farmers to upload images for instant diagnosis and treatment recommendations.

Mess Management System **May 2023 - Nov 2023**

- Developed a web application to streamline mess operations, including meal planning, attendance tracking, and billing.
- Created a responsive front end using HTML, CSS, and JavaScript for intuitive user experience.
- Utilized MySQL for efficient database management of user data, meal schedules, and transactions.
- Implemented admin features for updating meal schedules, tracking attendance, and generating bills.

Technical Skills

Programming Languages: Python, C
Machine Learning: Scikit-learn, TensorFlow, Keras, PyTorch
Deep Learning: Transfer Learning, Ensemble Learning, CNNs
Web Development: HTML, CSS, JavaScript
Databases: MySQL
Tools: Git, Jupyter Notebook, VS Code
Others: Data Structures & Algorithms

Certifications

Software Project Management by IIT Kharagpur — Certificate Link
Artificial Intelligence Foundations - LinkedIn — Certificate Link
Problem Solving Through Programming In C by IIT Kharagpur— Certificate Link
Programming, Data Structures And Algorithms Using Python by IIT Kharagpur — Certificate Link
Cloud Computing by IIT Kharagpur— Certificate Link
Microsoft Certified: Designing and Implementing a Data Science Solution on Azure (DP-700) — Microsoft Certificate Link
Preliminary English Test - Cambridge University