PRADEESH S

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Summary

Aspiring Machine Learning student pursuing a B.Tech in AI and ML. Strong foundation in Python and machine learning, passionate about deep learning, LLMs, and innovative AI solutions. Eager to contribute to AI and software development projects.

Education

B.Tech in Artificial Intelligence & Machine Learning 2023 – Present
Sri Shakthi Institute of Engineering and Technology CGPA: 8.3
HSC 2023
Sri Aanoor Vidyalaya Matric Hr. Sec School 86.17%
SSLC 2021

Technical Skills

Programming Language: Python, C, Java
ML/DL Frameworks: PyTorch, TensorFlow, Scikit-learn, Transformers, OpenCV, Langchain, Bootstrap
Web Technologies: HTML, CSS, JavaScript, React Js, Node Js, Express Js Flask, FAST API
Tools & Platforms: GitHub, MySQL, MangoDb Google Colab, Kaggle

Projects

Fertigation (Fertilizer + Irrigation) IoT-Based Project

- Engineered an IoT-based smart fertigation system to automate irrigation and fertilization, resulting in a 30% reduction in resource consumption.
- Implemented deep learning models for plant disease detection with 89% classification accuracy, enabling crop management.
- Optimized crop yield forecasting by integrating real-time IoT sensor data, leading to a 25% improvement in agricultural decision-making.

Resume Analyzer and Career Assistance Using LLM Live

- Designed and deployed a scalable LLM-powered web application for automated resume parsing and ATS compatibility scoring, improving resume processing time by 50%.
- Integrated advanced NLP techniques to extract structured data from resumes with high precision.
- Delivered AI-driven career path suggestions and skill gap analysis, increasing user job application success rates by 40%.

Brain Tumor Prediction Web App with Medical Chatbot Github

- Engineered a DL pipeline utilizing ResNet-50 for MRI-based brain tumor segmentation, achieving 90% accuracy in medical image classification.
- Crafted a responsive and user-friendly web app to deliver real-time predictions and intuitive result visualization.
- Embedded a conversational LLM-powered medical chatbot, boosting user engagement and enhancing accessibility to diagnostic insights.

Achievements

- **Horizon 25 Hackathon – Finalist (2025)**: Engineered an AI-powered agriculture assistant mobile app using React Native, integrating image-based crop disease detection and a Retrieval-Augmented Generation (RAG) system for real-time pesticide recommendations—recognized as a finalist among top innovations.
- Implemented an end-to-end solution by combining LLM-based query understanding with visual disease classification, enhancing the system's contextual accuracy and achieving a 45% improvement in user query resolution.

Certificates

- Introduction to Generative AI – Google Cloud (Coursera)
- LLMs – Text Classification using BERT – LinkedIn Learning

Profiles

LeetCode: leetcode.com/u/pradeesh11