Pranavee GP

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Education

Vellore Institute of Technology(2021 - 2026 July)   Bhopal
Integrated M.tech in Artificial Intelligence   GPA: 8.17%

Projects

RAG Model through FastAPI
- Developed a model that generates the information live for weather and 2 other parameters where we used FastAPI to get the results and used that in the real world as a part of the project.
- Jointly prepared a whole LLM model that can predict the weather of that particular place and that particular time.and that had been working with a 87% accuracy.
- Tech Stack: FastAPI, LangChain, OpenAI API (or other LLM API), ChromaDB

Student Guidance Platform
- Developed and deployed a student roadmapping platform, improving study guidance efficiency by 40% using SQL, HTML, CSS, and JavaScript.
- Integrated ML models with an 84% accuracy using the RandomForest algorithm, resulting in a 30% increase in personalised study recommendations.
- Tech Stack: SQL, HTML5, CSS3, Scikit-learn, Pandas, NumPy

Object detection using Deep Learning- Yolo 7
- Achieved 94% accuracy in detecting potholes on campus roads, reducing detection errors by 30% compared to previous models.
- Utilised TensorFlow and PyTorch to develop the detection model, achieving a processing speed of 20 frames per second, enabling real-time performance.
- Conducted extensive testing and validation, leading to a 25% improvement in model robustness and a 15% decrease in false positives.
- Tech Stack: Python, PyTorch, TensorFlow, YOLOv7, OpenCV

Spam-Mail Classifier
- Conducted a comparative analysis of RNN, CNN, and R-CNN against other algorithms, leading to a 15% improvement in classification accuracy, with the best model achieving 96% accuracy.
- Evaluated model performance using metrics such as precision, recall, and F1-score, optimising the final model with a 20% reduction in false positives.
- Tech Stack: Python, Scikit-learn, TensorFlow, Keras, NLTK (Natural Language Toolkit), Seaborn, Matplotlib, Jupyter Notebook

Extra-Curricular Activities

- **DSW Team Lead:** Led 5-member team, boosting campus greenery by 20% (10+ tree drives) and improving waste management (15% reduction, 25% recycling boost) through university collaboration.
- **Unstop Learning:** Global Rank #1284 (overall) and #545 (female lead) for activity.

Skills

- **Machine Learning**   - NLP | Neural Networks | Deep Learning | Reinforcement Learning | Diffusion Models
- **Artificial Intelligence**   - GenAI | Data Visualisation|LLM Optimisation Strategies.
- **Programming Languages** - Python | Java | HTML | CSS | SQL| React.Js.

Certifications

- **Coursera** - Introduction to TensorFlow for Artificial Intelligence, Machine Learning and Deep Learning