Muccharla Praveen

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Education

GMR Institute of Technology — Rajam, India
B. Tech in CSE in Artificial Intelligence & Machine Learning |GPA: 9.41(up to 5th Sem) — June 2022 – April 2026

Narayana Junior College — Rajam, India
Intermediate, Board of Intermediate Education Andhra Pradesh| Score: 92.2% — June 2020 – April 2022

Bhashyam High School — Rajam, India
10th, Board of Secondary Education, Andhra Pradesh (BSEAP) | GPA: 10 /10 — June 2019 – April 2020

Skills Summary

Languages: C, Python, SQL, Java, HTML, CSS, JavaScript
Frameworks & Libraries: Scikit-learn, Pandas, Matplotlib, Seaborn, TensorFlow, Flask, Streamlit, OpenCV
Tools & Platforms: Jupyter Notebook, Google Colab, VS Code, GitHub, Kaggle
Soft Skills: Communication, Time Management, Self-Learning, Presentation

Work Experience

Machine Learning Intern | Unified Mentor | Sep 2024 – Oct 2024
- Developed ML models for thyroid cancer classification and vehicle price prediction using Random Forest.
- Achieved 82.6% and 98.7% accuracy, respectively.

Foundations of AI | Microsoft | April 2025- May 2025
- Built a content-based movie recommender using Sentence-BERT to generate semantic embeddings from movie overviews.
- Optimized the recommendation pipeline by integrating cosine similarity for personalized suggestions.
- Achieved efficient and context-aware recommendations with fast retrieval times, enhancing user experience without requiring user history.

Projects

Credit Card Fraud Identification | Machine Learning
- Built a fraud detection model using SMOTE and AUC-ROC evaluation.
- Deployed real-time prediction dashboard via Streamlit.

Sign Language to Text and Speech | Deep Learning
- Converted American Sign Language (ASL) gestures into real-time text and speech using computer vision and gesture recognition.
- Recognized ASL alphabets, digits, and gestures from webcam input, translating them into text and speech via TTS.

Sentence Autocompletion | Natural Language processing
- Generated autocomplete suggestions for partial sentences using LSTM networks.
- Deep Learning Model: Built using LSTM (Long Short-Term Memory) networks.

Certification

Complete Data Science, Machine Learning, DL, NLP Bootcamp
- Covered end-to-end concepts in ML, DL, and NLP.
- Built real-world projects using TensorFlow, PyTorch, and scikit-learn.
- Focused on mathematical foundations and model optimization.

Deep Learning Certification – IIT Ropar (SWAYAM-NPTEL)
- Studied CNNs, RNNs, and advanced DL architectures.
- Completed hands-on assignments and real-world case studies.