Muccharla Praveen

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Profile Summary

Dedicated and focused learner with a strong interest in Artificial Intelligence and Machine Learning. Passionate about solving real-world problems through projects and hands-on learning. Eager to contribute to impactful teams while continuously improving skills and growing as a professional.

Education

GMR Institute of Technology, Rajam
B. Tech in CSE (AI & ML)   *June 2022 – Apr 2026**
GPA: 9.35 (up to 6th Sem)
Narayana Junior College, Rajam
Intermediate (Andhra Pradesh Board)   *June 2020 – Apr 2022*
Score: 92.2%
Bhashyam High School, Rajam
10th (BSEAP)   *June 2019 – Apr 2020*
GPA: 10 / 10

Skill Summary

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

Internships

Machine Learning Intern – Unified Mentor   *Sep 2024 – Oct 2024*
- Developed ML models using Python and scikit-learn.
- Built thyroid cancer classifier (98.7% accuracy) using Random Forest.
- Created vehicle price prediction model (R^2 score: 82.6%) with preprocessing and feature engineering.
- Evaluated with cross-validation and RMSE metrics.

Foundations of AI – Microsoft   *Apr 2025 – May 2025*
- Built content-based movie recommender using Sentence-BERT.
- Used cosine similarity and efficient search for real-time results.
- Delivered a deployable prototype improving recommendation precision.

Projects

College Placement Portal | ⌂
- Built a Flask-based portal integrating Students, Companies, and CDC officers for end-to-end placement management.
- Integrated AI features like Gemini-powered chatbot, resume analysis, interview question generation, and selection prediction.
- Implemented secure user roles, application tracking, and deployed real-time resume review and guidance tools via Stream lit.

Sign Language to Text and Speech | ⌂
- Developed a real-time ASL translator using OpenCV and a CNN-based hand gesture recognition model.
- Processed webcam input to identify sign gestures and converted them into text and audible speech using TTS APIs.
- Enabled recognition of alphabets, digits, and basic signs to support communication accessibility for the hearing impaired.

Sentence Autocompletion | ⌂
- Built an LSTM-based deep learning model to predict and complete sentences from partial user input.
- Preprocessed textual data using tokenization and padding to handle sequential input effectively.
- Delivered real-time suggestions to enhance typing speed, user experience, and context-aware input prediction.

Certifications

Complete Data Science, ML, DL, NLP Bootcamp
- ML, DL, NLP with TensorFlow, PyTorch, and scikit-learn.
- Real-world projects with focus on mathematical foundations.

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