Sanketh S

Aspiring AI Engineer

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Profile

Aspiring AI Engineer with hands-on experience in real-world ML applications. Seeking to leverage strong foundation in data analysis, algorithm development, and programming. Aiming to contribute to innovative projects while gaining hands-on experience in applying advanced machine learning and computer science techniques.

Technical Skills

- **Programming Languages:** Python, C, NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn, OpenCV, Flask
- **Libraries/Frameworks:** TensorFlow, Keras, PyTorch, Hugging Face, Transformers, CNN, RNN, LSTM, BiLSTM, Attention, BERT, GPT, ViT, TrOCR, CTC
- **ML Concepts:** Supervised ML, Unsupervised ML, Linear/Logistic Regression, SVM, Decision Trees, Random Forest, XGBoost, LightGBM, KNN, Clustering
- **Tools:** Jupyter, Google Colab, VS Code, GitHub, Git, Anaconda, MLflow
- **Data Science:** EDA, Feature Engineering, Statistics, Probability, Data Cleaning, Data Visualization, Model Evaluation
- **Domains and Deployment:** NLP, OCR, CV, Generative AI, Transfer Learning, Fine-tuning, Prompt Engineering, Windows

Education

B.E. in Artificial Intelligence & Machine Learning **2023–2025**
Mysore University School of Engineering, Mysore
CGPA: **7.3/10** (Final Year by July 2025)

Diploma in Civil Engineering **2018–2022**
JSS Polytechnic, Mysore
Percentage: **65%**

SSLC (10th Grade) **2018**
Tralabalu High School, Mysore
Percentage: **61%**

Projects

Handwritten Text Recognition with TrOCR **2025**
Fine-tuned Transformer-based OCR model using IAM dataset. Implemented beam search decoding and automated preprocessing/evaluation with CER/WER metrics.

Thyroid Cancer Detection System **2024**
Flask-based ML application with 90% accuracy. Featured voice input and role-based authentication for doctors/patients.

Scream Detection System **2024**
Real-time TensorFlow classifier using Librosa for audio processing. Achieved 93% accuracy with optimized latency.

Netflix Recommendation System **2023**
Content-based recommender using KNN algorithm and cosine similarity. Delivered personalized suggestions via Flask interface.

Internships & Experience

Machine Learning Intern, Jupiter Technologies **2024**
Developed classification models and improved performance through hyperparameter tuning and dataset validation.

Python Intern, CodSoft **2023**
Designed automation scripts and solved algorithmic challenges to enhance logic-building skills.

Certifications & Languages

Certifications: Machine Learning (CodSoft), Python (CodSoft), Career Essentials in Data Analysis (Microsoft & LinkedIn)
Languages: Kannada (Native), English (Fluent), Hindi (Proficient)