

Niranjana S

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Objective

Versatile and detail-oriented engineering graduate specializing in Artificial Intelligence and Machine Learning, with strong foundations in data science, analytics, and generative AI. Proficient in Python and SQL. Seeking an entry-level role to apply analytical skills, model development expertise, and innovative thinking to solve real-world challenges in areas such as machine learning engineering, data analytics, and AI research.

Education

B.E. in Artificial Intelligence and Machine Learning

Mysore University School of Engineering, Mysuru

2021 – 2025

Technical Skills

- **Languages:** C, C++, Python, Java, SQL, HTML, CSS
- **Libraries/Frameworks:** Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow, PyTorch, FastAPI
- **Databases:** MySQL, PostgreSQL
- **Concepts:** Machine Learning, Deep Learning, Data Analysis, Statistics, Prompt Engineering, NLP
- **Tools & OS:** GitHub, Jupyter, Colab, VS Code, Power BI, Excel, Google Sheets
- **Soft Skills:** Communication, Teamwork, Problem Solving, Adaptability

Projects

1. Customer Segmentation using KMeans & Streamlit

- Built a KMeans clustering model to segment customers based on demographics and shopping behavior; identified actionable groups like “High-Value Shoppers” and “Budget-Conscious Browsers.”
- Deployed a Streamlit app for real-time segment prediction and visualized insights using heatmaps and summary tables.

2. Toxic Comment Classification

- Built a **Bi-directional LSTM** model to classify comments as “Toxic” or “Not Toxic”, achieving **96.4% accuracy**.
- Enabled manual or CSV-based comment inputs, saved batch outputs.

3. Handwritten Text Recognition with TrOCR (Transformer OCR) — IAM Dataset

- Developed and fine-tuned a Transformer-based OCR model (TrOCR) to transcribe handwritten word images using IAM dataset, reducing error rates via beam search decoding.
- Automated data preprocessing, training, inference, and evaluation using CER/WER metrics.

Internships & Experience

Data Analytics Virtual Internship, Accenture North America (Forage)

Mar–Apr 2025

Completed a simulation project involving data analysis, risk identification, and reporting. Cleaned and visualized data, derived insights, and delivered client-ready presentations.

Front-End Development Intern, QR Store Solutions Pvt. Ltd., Bengaluru

Sep–Oct 2023

Developed a weather web app using HTML, CSS, and JavaScript. Designed responsive UI and followed secure web development practices. Collaborated under mentorship to complete professional tasks.

Certifications

- **Career Essentials in Data Analysis** – Microsoft and LinkedIn
- **Power BI Data Analyst Prep** – Coursera
- **Machine Learning with Python** – Simplilearn
- **Introduction to SQL** – Simplilearn
- **SQL** – HackerRank — **Python** – HackerRank