Sangram Lembe

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EDUCATION

S.R.M. Institute of Science and Technology , Chennai **2025 - 2027**
M.Tech - Data Engineering *Chennai, Tamilnadu*

G.H.Raisoni College of Engineering and Management, Pune **2020 – 2024**
B.Tech - Artificial Intelligence - ***CGPA - 8.31*** *Pune, Maharashtra*

COURSEWORK

- Machine Learning
- Computer vision
- NLP Concepts
- Deep Learning

EXPERIENCE

Intern at Flourisense **July 2023 - January 2024**
Role - Python Developer *Pune, Maharashtra*

- Developed and maintained an Application Tracking System using Node.js and Sequelize.
- Implemented RESTful APIs to manage candidate data, leveraging the flexibility and scalability of Node.js.
- Utilized Sequelize ORM for efficient database operations and data modeling.
- Integrated and tested API endpoints using Postman for seamless communication between front-end and back-end systems

PROJECTS

AI Legal Reasoning Assistant (DeepSeek R1 and RAG) | **Aug-Nov 2025**

- Designed a legal analysis tool using DeepSeek R1 to leverage Chain-of-Thought (CoT) reasoning for interpreting complex legal statutes.
- Built a RAG pipeline with LangChain and FAISS to retrieve context from penal codes (e.g., UDHR), reducing hallucinations and providing citation-backed legal answers via a Streamlit interface.

Features Preserving Blurred Image Classification Using LLM | **Jan-Jun 2024**

- Developed "InstructIR", a Deep Learning system for text-guided Image Restoration using PyTorch and LLMs to deblur, denoise, and enhance images.
- Build a multi-modal architecture fusing NLP text embeddings with Computer Vision features to interpret natural language prompts for precise image correction.
- Deployed a user-friendly interface using Gradio and HuggingFace, demonstrating proficiency in Model Inference, Python, and full-stack AI application development.

Forecasting the Psychological Well-being of Students Using ML | **2023 - 2024**

- Developed a machine learning model using PCA, PSO, and stacked ensemble techniques to forecast mental health challenges among 1,000 college students.
- Enabled early identification of at-risk students, allowing for timely and targeted mental health interventions to significantly improve well-being, academic performance and emotional resilience among students.
- Contributed to creating a proactive, student-centric ecosystem focused on mental health, emotional support through data-driven, advanced predictive analytics and targeted early intervention strategies.

TECHNICAL SKILLS

Languages: Python, C++, SQL, HTML, CSS
Technologies/Libraries: Jupyter Notebook, Scikit-learn, TensorFlow, Matplotlib, Plotly,
Tools: Anaconda, VS Code, PyCharm, Git, Canva

PUBLICATIONS

Features Preserving Blurred Image Classification Using Large Language Model. **2024**
In IJIRSET, pp. 8474-8480. Publisher. 5 MAY 2024, Pune. DOI: X10.15680/IJIRSET.2024.1305313

CERTIFICATIONS

- Fundamentals of Deep Learning - NVIDIA
- The Joy of Computing using Python - NPTEL