

OM ASANANI

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Education

Vellore Institute of Technology

Integrated M.Tech in Artificial Intelligence (CGPA:- 8.28)

September 2022 - May 2027

Bhopal, Madhya Pradesh

Vyas World School

Senior Secondary (Percentage:- 93%)

March 2021 - April 2022

Bareilly, Uttar Pradesh

Experience

InfoAxon Technologies India Pvt. Ltd.

AI Intern

October 2025 – December 2025

Noida, Uttar Pradesh

- Engineered a robust Document OCR pipeline using Python, Tesseract, and OpenCV to automate high-volume data extraction from critical financial documents (Aadhar, PAN, Passports).
- Achieved 90% accuracy on noisy document images by implementing custom deskewing and binarization preprocessing, significantly improving data quality.
- Researched and evaluated phonetic algorithms (Soundex, Metaphone) and Levenshtein distance for automated name correction, identifying opportunities for accuracy improvement.
- Developed a Regex-based validation library to standardize extracted entities, reducing manual data verification overhead and speeding up turnaround times.

Projects

Resume-Tailor - Automated Resume Orchestrator | Python, Gemini Pro API, Llama 3 (Ollama), Regex

- Orchestrated an LLM-driven agentic workflow to automate complex document tailoring, eliminating manual processing and enhancing efficiency.
- Architected a modular inference layer enabling dynamic switching between Gemini Pro and local Llama 3 models for secure, PII-sensitive document generation.
- Implemented a robust 'Sanity Check' system with Python regex to prevent hallucinated formatting, ensuring 100% compilation success and data integrity.

TalentScout - Intelligent Hiring Assistant | Python, Streamlit, LangChain, Google Gemini Pro, SQLite, Docker

- Developed an AI assistant using Gemini Pro by implementing a RAG pipeline using LangChain to auto-generate role-specific questions, reducing interviewer prep time by 40%.
- Optimized database queries with SQLite indexing to efficiently process 500+ mock profiles, ensuring scalable performance.
- Achieved less than 1.2s interactive latency and 99% uptime by deploying the application via lightweight Docker containers.

Adaptive Phishing Threat Detection Pipeline | Python, Flask, Scikit-learn, MLflow, Docker, AWS Elastic Beanstalk

- Built an end-to-end detection pipeline achieving 97% accuracy and 0.98 recall on phishing URLs using Random Forest.
- Optimized model performance by 37% via Grid Search across 6 classifiers, tracking all experiments using MLflow.
- Containerized the application using Docker and orchestrated deployment on AWS Elastic Beanstalk for auto-scaling.

Technical Skills

Languages: Python, SQL

Developer Tools: Git, Docker, AWS, MLflow, PostgreSQL, VSCode, Ollama, Postman

Technologies/Frameworks: Flask, Streamlit, LangChain, Scikit-learn, TensorFlow, Gemini Pro API, Llama 3

Leadership / Extracurricular

Odoo Hackathon 2025

AI Developer

August 2025

Odoo Hackathon

- Co-developed 'TravelTrotter', an AI-driven travel planner using Gemini API, winning recognition for seamless UI/UX integration.

VIT Bhopal Tech Hackathon

API Developer

March 2024

VIT Bhopal University

- Developed scalable backend APIs for an e-commerce platform using the MERN stack within a tight 24-hour deadline.