OM ASANANI

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Education

VIT Bhopal University   **September 2022 - October 2027**
Integrated M.Tech - Artificial Intelligence (CGPA: 8.30)   *Bhopal, MP*

Vyas World School   **May 2021 - April 2022**
Senior Secondary (93%)   *Bareilly, UP*

Experience

InfoAxon Technologies India Pvt. Ltd.   **October 2025 - December 2025**
AI Intern   *Noida, Uttar Pradesh*
- Researched and evaluated phonetic algorithms (Soundex, Metaphone) and Levenshtein distance for automated name correction, identifying opportunities for accuracy improvement.
- 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.
- 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, Docker*
- 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, Gemini Pro API, LangChain, Streamlit, SQLite*
- Designed an intelligent automation tool to streamline HR operational processes, significantly reducing manual workload.
- Implemented a RAG pipeline leveraging Gemini Pro to generate context-aware interview questions, enhancing screening accuracy.
- Optimized database queries with SQLite indexing to efficiently process 500+ mock profiles, ensuring scalable performance.

End-To-End MLOps Pipeline | *Python, DVC, MLflow, Docker, Scikit-learn*
- Constructed a standardized, modular MLOps pipeline to unify AI solution training and deployment workflows, promoting responsible development.
- Integrated DVC for robust data versioning and MLflow for comprehensive experiment tracking, ensuring transparency and reproducibility.
- Designed a model-agnostic architecture serving as a reference for rapid prototyping and scalable AI solution deployment.

Technical Skills

Languages: Python, JavaScript, SQL
Developer Tools: Docker, Git, VSCode, AWS (Elastic Beanstalk), PostgreSQL, MongoDB, Ollama, DVC, MLflow
Technologies/Frameworks: TensorFlow, Keras, Scikit-learn, OpenCV, LangChain, Pandas, NumPy, Gemini Pro API, Streamlit, Flask, Node.js, React.js

Leadership / Extracurricular

Odoo Hackathon 2025   **August 2025**
AI Developer   *Gandhinagar, Gujarat*
- Co-developed 'TravelTrotter', an AI-driven travel planner using Gemini API, winning recognition for seamless UI/UX integration.

VIT Bhopal Tech Hackathon   **March 2024**
API Developer   *VIT Bhopal University*
- Developed scalable backend APIs for an e-commerce platform using the MERN stack within a tight 24-hour deadline.