Rahil Ketankumar Shah

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SUMMARY:

Data Science Master's Student (Stevens Institute of Technology) specializing in Generative AI, Large Language Models (LLMs), and Agentic Workflows. Proven track record of architecting autonomous multi-agent systems and RAG pipelines using Gemini 2.0, CrewAI, and LangChain. Experienced in deploying scalable computer vision solutions with Docker and FastAPI. Seeking to leverage expertise in deep learning and predictive analytics to drive business impact.

EDUCATION:

Stevens Institute of Technology – Hoboken, NJ, USA   Expected Graduation: May 2026
Master of Science in Data Science

Charotar University Of Science And Technology– Anand, Gujarat, India   Graduated: May 2024
Bachelor of Technology in Information Technology | 8.98

TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, R, JavaScript.
- **Data Analysis**: Pandas, NumPy, Tableau, PowerBI, Matplotlib.
- **Cloud & MLOps:** Docker, FastAPI, AWS, Google Cloud Platform (Vertex AI), Git/GitHub.
- **AI & Machine Learning:** Generative AI, RAG Systems, LLMs (Gemini, OpenAI), Agentic AI (CrewAI), TensorFlow, PyTorch, Scikit-learn, YOLOv8, OpenCV, GANs.

PROFESSIONAL EXPERIENCE:

Kintu Designs Pvt. Ltd, Data Science Intern – Surat, India   [Dec 2023 – Apr 2024]
- Designed Generative Adversarial Networks (GANs) and facial landmark algorithms to simulate and detect realistic deepfake content.
- Deployed detection models that increased manipulated content identification accuracy by 30%, directly improving platform security.

Exposys Data Labs, *Data Science Intern*– Bangalore, India   [May 2023 – Jun 2023]
- Built predictive diagnostic models for healthcare datasets using Logistic Regression and Random Forests, utilizing Pandas for data preprocessing.
- Performed rigorous hyperparameter tuning to boost model accuracy to 88%, validating results through cross-validation.

Prolog Infotech, *Python Developer Intern*– Rajkot, India   [May 2022 – Jun 2022]
- Led the development of real-time sign language recognition algorithms, optimizing machine learning classifiers for processing efficiency.
- Integrated advanced Python libraries to enhance hand gesture recognition accuracy and overall system performance.

PROJECTS:

Autonomous Financial Research Agent | *Python, CrewAI, Gemini 2.0*
- Architected an autonomous multi-agent system using CrewAI to orchestrate specialized "Researcher" and "Writer" agents for end-to-end market analysis.
- Reduced manual research time by ~90% while generating investor-ready reports with high citation accuracy through robust inter-agent delegation.

Medical RAG Intelligence System | *Python, FAISS, Gemini Flash*
- Developed a "zero-hallucination" Retrieval-Augmented Generation (RAG) system using FAISS and Gemini 2.0, restricting responses to verified medical literature.
- Optimized vector retrieval and inference latency to support real-time user interaction, ensuring evidence-based answers for healthcare queries.

CERTIFICATIONS

- Google Data Analytics Professional Certificate
- AWS Academy: Getting Started with Data Analytics
- Supervised Machine Learning: Regression and Classification (Coursera)