Shreyas Sreenivas

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Summary

Results-driven Data Scientist with 3+ years of experience building secure, AI-powered platforms using Python, FastAPI, and AWS, with a focus on real-time analytics, LLMs, and cloud native solutions. During my free time, I read sci-fi novels, cook unique recipes, and watch drama shows. I am also a big dog person, as seen on my portfolio (not at all embarrassed)

Education

Northeastern University, MS in Data Analytics Engineering – Boston, USA   **Sept 2023 – Dec 2025**

- **Relevant Courses:** Data Management for Analytics, Foundations of Data for Analytics, Data   *GPA: 3.92 / 4.0*
Mining for Engineering, Computation and Visualization for Analytics, Natural Language Processing,
Mixed Reality, GenAI

BMSIT&M, BE in Artificial Intelligence and Machine Learning – Bangalore, India   **Aug 2019 – May 2023**

- **Relevant Courses:** Probability and Statistics, Database Management, Neural Networks, Machine Learning, Artificial
Intelligence, Natural Language Processing, Deep Learning, Business Intelligence, Data Structures

Experience

Co-Founder and Lead Developer, Vivytech – Boston, USA   **May 2024 – Present**

- Architected financial platform using **REST API**, **JWT authentication**, and **2FA via TOTP** on **AWS EC2** to establish secure bank connectivity, delivering highly secure operations with personalized financial analytics.
- Developed financial analysis engine using **Cohere-powered** AI with specialized prompt engineering and **Plaid API** integration to create complete credential management system, enabling real-time transaction updates and tailored strategies.
- Engineered technical infrastructure with **React** dashboard and **GDPR-compliant** data management by implementing interactive visualizations and role-based access control, improving user experience while ensuring regulatory compliance.

Data & AI Engineer, Intelligent DataWorks – Boston, USA   **Jan 2025 – Aug 2025**

- Architected HR management platform integrating job operations, applicant tracking, applicant management, jobs management using **REST API**, **FastAPI**, and **PostgreSQL** with **Pydantic**, improving system architecture by 30%.
- Engineered authentication framework with **JWT tokens**, **bcrypt** password hashing, and **AWS SES** for email verification to implement persistent sessions and role-based access control, enhancing security while improving user experience.
- Developed HR workflows in **Python**, **Streamlit** and **PostgreSQL** by creating interactive dashboards and implementing **AI algorithms** to enable data-driven hiring decisions and automated candidate evaluation.

AI Engineer, Chipmonk Technologies Pvt. Ltd. – Bangalore, India   **Sept 2022 – Aug 2023**

- Engineered **machine-learning** model using **linear regression** to detect tolerance lines from video feeds, enhancing real-time tracking precision by 30% and streamlining construction data analysis by 35%.
- Constructed **MySQL database** for storing coordinate data and construction metrics by designing efficient data schemas, improving processing time by 25% and facilitating accurate multi-site project tracking.
- Built **CICD pipeline** with **TeamCity** to automate and analyze testing processes, increasing developer productivity by 30% while ensuring consistent software quality across deployments.

Projects

ATLAS - Clinical Decision Support System   **Sept 2025 – Present**

- Engineered a full-stack clinical decision support platform using **React**, **Next.js**, and **Node.js** with **SQLite** database that integrates **Gemini AI** for intelligent clinical analysis and recommendations. Implemented comprehensive patient management, consultation workflows, and clinical guidelines with responsive design optimized for ultra-wide displays and medical environments.

Aligning AI with Medical Expertise: A Multi-Agent Framework   **Sept 2024 – Dec 2024**

- Developed a multi-agent framework using **Python**, **PyTorch** and **Langchain** that integrates general-purpose and fine-tuned **LLMs** with critique mechanisms. Fine-tuned **Phi 3.5 Mini** using **Unsloth** and conducted comprehensive data analysis across medical specialties, achieving improved diagnostic accuracy and 92% alignment with requirements of healthcare expertise.

Multimodal Video Ad Classifier   **Jun 2024 - Jun 2024**

- Built a multimodal **LLM classifier** using **Python**, **TensorFlow** and **OpenCV** that analyzes 150 video ads through video frames, text descriptions, and transcriptions. The system achieved 81.43% agreement with human coders, exceptional performance in branding elements (**F1 = 0.88**) and emotional intent (**F1 = 0.81**), and identified improvements for narrative features (**F1 = 0.56**).

Skills & Interests

- **Technologies:** Python, JavaScript, SQL, React, Node.js, FastAPI, Docker, AWS, Git, TensorFlow, PyTorch, scikit-learn
- **Skills:** Machine Learning, Natural Language Processing, Computer Vision, Data Engineering, Database Design, API Development, Cloud Computing
- **Interests:** Hiking, "Black Mirror", Chess, Science Fiction, Video Games, Food, Travel