

# SHREYAS AVADHOOT GOSAVI

Tempe, AZ | [Github](#) | [Linkedin](#) | sgosavi2@asu.edu | (602) 430-0625

## PROFESSIONAL EXPERIENCE

Software Engineer, Wipro Limited

May 2022 - November 2023

- Built and executed a scalable AI data pipeline with Python, LangGraph, and DAGs that can analyze over 2.6 million records in less than 45 minutes. This reduces manual work and automates analytics, saving over \$1.2 million yearly.
- Engineered backend microservices for LLM prompt validation and routing, using Python and AWS Lambda, cutting debugging time by 36% and improving output accuracy across GenAI tools.
- Wrote and integrated over 18 reusable React components to streamline LLM tool UIs, reducing UI build time by 33% and improving consistency in developer-facing applications.
- Improved and maintained CI/CD workflows using GitHub Actions and AWS, improving deployment speed by reducing regression-related rollbacks through automated test coverage.
- Diagnosed and resolved critical software defects and performance regressions utilizing Polars and in-house debugging frameworks, resulting in 63% fewer escalations and the retention of a key client worth over 1.2 million dollars per year.

Data Engineer, Zensar Technologies

October 2021 - April 2022

- Coded a fraud detection engine using PyTorch, NLP, and SQL, deployed on AWS SageMaker; reduced false positives by 67 percent and saved the client approximately 300,000 dollars per year.
- Developed and fine-tuned a multi-agent chatbot using GPT-3 and LangChain, automating internal support queries and reducing L1 ticket volume by 66 percent with consistent system uptime.
- Programmed regression test pipelines and automated model validation with MLflow and GitHub Actions, increasing test reliability by 53 percent and preventing recurring bugs.
- Analyzed performance monitoring dashboards using SQL and PowerBI, reducing model drift detection time by 61 percent and avoiding SLA penalties of up to 50 thousand dollars per incident.

## TECHNICAL SKILLS

Languages & Scripting: Python, SQL, Java, JavaScript, C#, Shell Scripting, C/C++

AI & Machine Learning: TensorFlow, PyTorch, Scikit-learn, Hugging Face, Neural Networks, NLP, Computer Vision

Generative AI: LLMs (GPT-3/4, Gemini), RAG Systems, Prompt Engineering, AI-Agent

Cloud Platforms & DevOps: AWS, Docker, Kubernetes, Jenkins, Terraform, Git

Database Management: MS SQL, MongoDB, RDBMS, NoSQL, DynamoDB

Data Processing & Visualization: Pandas, NumPy, Tableau, PowerBI, Data Pipelining, Matplotlib, Seaborn

## PROJECTS

Generative AI Financial News Research Assistant (RockyBot)

May 2025

- Automated OpenAI chatbot to summarize 10K+ financial articles weekly, improving research turnaround significantly.
- Constructed custom pipeline with LangChain and FAISS, indexing 100+ live URLs daily for query retrieval.
- Reduced manual research effort by 70% through real-time document comparison and summarization features.

Personalized Book Recommendation Engine

November 2024

- Created recommendation engine using 300K ratings from 25K users, scalable ML model development expertise.
- Structured sparse user-item matrix (95%) enabling fast KNN clustering, strong data preprocessing and modeling skills.
- Accelerated large dataset processing using PySpark, reducing query latency by over 27%

Virtual Assistant Glasses for Visually Impaired People (Darshan)

May 2022

- AI-powered smart glasses detecting 23+ object types, enabling real time accessibility support for impaired users.
- Trained object recognition model on 5K+ images, achieving 92% accuracy in controlled indoor environments.
- Implemented voice based system, reducing manual effort by 76%, enhancing user experience and system accessibility.

## EDUCATION

Master of Science in Information Technology

January 2024 - December 2025

Arizona State University

Arizona, US

Bachelor of Engineering in Electronics and Telecommunication

August 2018 - May 2022

Savitribai Phule Pune University

Pune, IN

## CERTIFICATIONS

- AWS Data Engineer Course Completion Certificate([certified](#))
- AWS Machine Learning Course Completion Certificate([certified](#))
- Agentic AI Engineering