Contact

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Top Skills

LLM Evaluation
Time Series Analysis
Time Series Forecasting

Languages

Marathi (Limited Working)
Spanish (Elementary)
English (Full Professional)
Hindi (Professional Working)

Certifications

Programming for Everybody(Getting Started with Python)
Python Programming: A Concise Introduction
Neural Networks in Python from Scratch: A Complete Guide
Snowflake Snowpro Core
Generative AI: Introduction and Applications

Publications

ResCoWNet: A Novel Deep Learning Approach for Despeckling OCT Images

Shreyash Sahare

Machine Learning Engineer | Ex-Data Scientist at Parlay Finance | 3+ Years in Predictive Modeling, LLMs & Scalable ML Pipelines | Python, SQL, R | Deep Learning, Fine-Tuning, GenAI
Boulder, Colorado, United States

Summary

I'm a Machine Learning Engineer and Data Scientist with a strong background in AI, data engineering, and software systems. I enjoy building end-to-end machine learning solutions—whether that's designing scalable ETL pipelines, training predictive models, or deploying real-time analytics systems in the cloud.

Over the past few years, I've worked on projects across finance, supply chain, and healthcare. From creating SBA loan classifiers that improved approval workflows, to building explainable AI tools with SHAP and LIME, to developing semantic search systems using RAG and GPT-4o—I've had the chance to solve meaningful problems with a mix of ML, data engineering, and creativity.

I'm comfortable working across the stack: Dockerized pipelines with Airflow, MLOps with MLflow, and cloud platforms like AWS, GCP, and Azure are part of my regular toolkit. I also love diving into GenAI and LLMs—especially exploring how they can make decision systems more transparent and user-friendly.

At the end of the day, I care about more than just accuracy. I like to think about how models will actually be used—how they can be trusted, interpreted, and tied to real business outcomes. I'm always open to learning, collaborating, and pushing the boundaries of what's possible with AI and data.

Experience

Void Robotics
Robotics Engineering Intern
August 2025 - Present (4 months)
Marathon, Florida, United States

As a Robotics Engineering Intern at Void Robotics, I worked at the intersection of AI and robotics by developing perception and computer vision pipelines within ROS2. I built a pill-counting system across 50+ images using K-Means clustering and advanced CV techniques such as Lab color space conversion, thresholding, watershed, and masking to accurately detect and mark objects. Building on this foundation, I expanded into robotics AI by implementing SLAM-based autonomous navigation in ROS2 and deploying YOLO-driven object detection in Docker for real-time robotic perception, establishing a scalable path toward intelligent, data-driven robotic systems.

Mercor
Data Science Expert
August 2025 - September 2025 (2 months)
San Francisco, California, United States

As an Independent Contractor at Mercor, I was expected to execute end-to-end data science tasks and evaluate the reasoning capabilities of state-of-the-art LLMs. I completed 20+ projects across diverse datasets involving hypothesis testing, time series forecasting, clustering, and data preprocessing, while also creating visualizations and insights. Beyond analysis, I crafted challenging prompts for LLMs, authored expert golden responses, and developed detailed rubrics to benchmark model performance. These evaluation frameworks consistently drove SOTA models to score below 50%, averaging 27% across tasks, highlighting reasoning gaps and strengthening the rigor of AI evaluation.

Parlay Finance
Data Scientist
January 2025 - May 2025 (5 months)
Alexandria, Virginia, United States

- Developed an ML-powered SBA loan eligibility classification system using XGBoost, LightGBM, TabTransformer, and Neural Networks, that achieved 87% accuracy and double-digit F1-score improvements through a stacked ensemble model.

- Generating a 200K+ row synthetic dataset simulating real-world loan applications, applying SMOTE and random oversampling to balance five eligibility classes capped at 15K samples each

- Engineered key financial features (DSCR, DTI, liquidity scores) with polynomial/log transformations, and integrated SHAP and LIME for model explainability and regulatory transparency.

- Reduced loan processing times from weeks to hours, enabling faster, fairer credit access for small businesses.

National Institute of Technology, Tiruchirappalli
Undergraduate Research Intern
June 2022 - August 2022 (3 months)
Tamil Nadu, India

As an Undergraduate Research Intern under the guidance of my college professor, I actively contributed to advancing medical imaging techniques through cutting-edge research and development. My role involved designing a novel deep convolutional neural network, ResCoWNet, specifically tailored for Optical Coherence Tomography (OCT) image despeckling, using Python and TensorFlow.

My work culminated in the publication of findings in a peer-reviewed journal, positioning ResCoWNet as a benchmark in medical imaging. This experience honed my skills in machine learning for healthcare applications, academic writing, and data visualization, while deepening my understanding of advanced image processing techniques.

Probe, NIT Trichy
1 year 8 months

Head of Mentorship Program(Student Relations)
August 2021 - August 2022 (1 year 1 month)
Tiruchirappalli, Tamil Nadu, India

Coordinator
January 2021 - August 2021 (8 months)
Tiruchirappalli, Tamil Nadu, India

Pragyan - International Techno-managerial Organisation
Manager, Crossfires and Guest Lectures
July 2021 - August 2022 (1 year 2 months)
Tiruchirappalli, Tamil Nadu, India

National Institute of Technology, Tiruchirappalli
Undergraduate Research Assistant

July 2021 - January 2022 (7 months)
Tiruchirappalli, Tamil Nadu, India

Education

University of Colorado Boulder
Master's degree, Computer Science · (August 2023 - May 2025)

National Institute of Technology, Tiruchirappalli
Bachelor of Technology - BTech, Electronics and Communication Engineering · (July 2019 - May 2023)

City International School, Wanowrie
Student, High School · (2017 - 2019)

Hutchings High School & Junior College
Student, Schooling · (2005 - 2017)