

# Atharva Joshi

New York (Open to relocate / Hybrid) | STEM OPT Eligible | +1 (716) 256-7634 | atharvaj2112@gmail.com  
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## SUMMARY

Data Scientist and AI Engineer with **3+ years** building production ML, GenAI, and analytics systems across industrial, financial, and operational domains. Shipped **Clarify** (production LLM agent), **StockSense** (forecasting platform with **22% RMSE lift**), and published **AgentEval** on PyPI (Python framework for LLM evaluation). Strong in **Python, PyTorch, LLMs, RAG, FastAPI, AWS, and statistical modeling**, with a track record of turning ambiguity into shipped solutions and quantified business impact.

## TECHNICAL SKILLS

**Languages:** Python, SQL, R, TypeScript

**AI Models & Assistants:** ChatGPT, Claude (Code, Skills, for Work), Gemini, GitHub Copilot, OpenAI API, Anthropic API

**ML, GenAI & Agents:** PyTorch, scikit-learn, LangChain, RAG, Agentic Workflows, MCP, Vector DBs ( ChromaDB), Hugging Face

**Production & Cloud:** FastAPI, Docker, AWS, PostgreSQL, MLflow, Git, GitHub Actions, CI/CD

**Analytics & BI:** Tableau, Power BI, Excel, Statistical Analysis, Forecasting, Data Validation

## EDUCATION

**Master's in Data Science**

University at Buffalo, State University of New York

Aug 2024 - Dec 2025

3.73/4 GPA

**Bachelor of Engineering in Electronics**

Jawaharlal Nehru Engineering College, India

Aug 2019 - Jul 2023

8.41/10 GPA

## PROFESSIONAL EXPERIENCE

**Research Data Analyst**, University at Buffalo

Buffalo, NY | Oct 2025 - Apr 2026

- Reduced a high-dimensional **696-feature** research dataset to **80 high-signal variables** via hypothesis testing and regression analysis in **Python** and **R**, cutting modeling search space by **88%** and accelerating analytical cycles for 4 stakeholders.
- Shipped a **Python** and **SQL** data pipeline integrating **3 sources** into **41 production reports**, eliminating **100%** of recurring manual reporting and reclaiming **15+ hours/week** of stakeholder time.

**Data Scientist**, Machinery Monitoring Systems LLC

Buffalo, NY | Aug 2025 - Dec 2025

- Shipped a **Python AI service** via **FastAPI** and **Docker** from **EDA** through validation and deployment, reaching **99.98% accuracy** and automating a manual triage process previously costing operations **~4 hours/day**.
- Built **model evaluation infrastructure** tracking **4+ KPIs per release** (accuracy, latency, drift, exception rate), enabling **3 iterative retraining cycles** that sustained **99%+ production accuracy**.

**Machine Learning Engineer**, Rucha Yantra LLP

India | Feb 2023 - Jul 2024

- Designed and trained **classification models** in **Python** on multi-sensor industrial telemetry across **5+ device classes**, with **Python** and **SQL backend pipelines** on **AWS** processing **10K+ daily records**.
- Shipped **3 ML modules** from scoping through deployment alongside senior engineers, meeting every quarterly release with **zero rollbacks across 17 months** and contributing to **~\$80K** in estimated annual customer cost savings.

**Data Analyst Intern**, Chandra Engineering

India | Sep 2021 - Dec 2022

- Trained **3 forecasting models** (**Random Forest**, **XGBoost**, **TensorFlow**) in **Python** and **SQL** on **12+ months** of multi-product sales data using walk-forward backtesting, replacing a manual Excel workflow.
- Lifted forecasting accuracy by **20%**, cut stock-outs by **15%** and overstocking by **10%**, saving **\$10K annually** and improving on-time fulfillment by **5%**; insights surfaced through **Tableau**.

## TECHNICAL PROJECTS

**Clarify: Production LLM Agent for Workflow Automation**

[Live Demo](#)

- Built an **LLM agent** with **tool/function calling**, **multi-step reasoning**, and a self-correcting **clarification loop** that converts free-text business briefs into validated structured artifacts in **under 5 minutes**.

**StockSense: End-to-End ML Forecasting Platform**

[Live Demo](#)

- Built a forecasting platform using **HGBT**, **SARIMAX**, and walk-forward backtesting on **PySpark** / **DuckDB** pipelines, hitting **22% lower RMSE** vs baseline with **31 tests** and CI hardening.

**AgentEval: Python Framework for LLM Evaluation**

[GitHub](#)

- Published a **Python framework on PyPI** benchmarking LLM agents on **accuracy, latency, token cost, reliability, and safety**, with **LLM-as-judge** scoring across Anthropic and OpenAI integrations.

## LEADERSHIP & CERTIFICATIONS

- Certification:** **Deep Learning Nanodegree**, Udacity (neural networks, CNNs, RNNs, GANs, deep RL).
- Open Source:** Maintainer of **finreg-ml** (PyPI) and **AgentEval** (PyPI), with active development on **GitHub** across applied AI, Responsible AI, and LLM evaluation tooling.