

SHUBH DHAR

AI Engineer & Data Scientist · UW MSIM (GPA 3.95)

Shipping production-grade GenAI and agentic systems end-to-end, backed by 2 years of industry AI engineering.

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[GenAI Resume](#) · [LinkedIn](#) · [GitHub](#)

CORE COMPETENCIES

GenAI & Agentic Tools	LangGraph · LangChain · LlamaIndex · RAG · Claude Code · Cursor · Replit · Lovable
Software Engineering	Flask · Django · Node.js · JavaScript · Java · C++ · C# · .NET · Swift
AI / ML	Python · TensorFlow · PyTorch · scikit-learn · OpenAI · Gemini · AWS Bedrock
Data & BI	SQL · MongoDB · BigQuery · Databricks · GCP · AWS · Power BI · Tableau · A/B Testing

PROFESSIONAL EXPERIENCE

Senior Data Scientist

Apr 2024 - Jul 2025

Seawoods Medical Group · Mumbai

- Built a **tool-calling LLM assistant with RAG loops** enabling non-technical staff to query inventory, trigger forecasting tools, and retrieve recommendations in natural language cutting manual lookup time for clinical ops teams.
- Led end-to-end delivery of the "**AI Inventory Availability Maximizer**": shipped to production, lifting medical device availability by **12%** through predictive modeling, automated forecast-to-fulfillment workflows, and a GenAI chat interface.
- Designed **agentic workflows** chaining data retrieval, model inference, and recommendation generation in a single conversational loop; integrated sales, inventory, and supplier datasets for real-time insights.

Data Scientist / Engineer

Nov 2024 - Mar 2025

IIM Ahmedabad · Gujarat

- Led AI research on Indian healthcare and financial market trends; built **data pipelines with the Seeking Alpha API** into PostgreSQL, applying supervised models to predict market dynamics for faculty-led research.
- Benchmarked **Random Forest, Gradient Boosting, and Logistic Regression** on healthcare and financial company performance signals from ratings, reviews, and sentiment data.

Data Science Engineer

Aug 2023 - Mar 2024

Viral Fission · Mumbai

- Shipped a **churn propensity model and engagement features** that lifted user engagement rate by **14%**.
- Developed a **real-time data platform** managing 10 TB+ of app usage data across Azure, MongoDB, and BigQuery.
- Delivered interactive Tableau and Power BI dashboards supporting product decision-making for leadership.

SELECTED PROJECTS

Agentic SoundGuide Financial Companion

HuskyHack 2025

- Built a **RAG-based AI financial companion** for Sound Credit Union with gamified health dashboard, life-event detection, full frontend + chatbot.
- Owned scoring logic, cross-bank loan analysis, and contextual life-event recommendations; presented live to Sound Credit Union stakeholders.

Global Crop and Fertilizer Predictor

Full-Stack IOT & ML

- Developed multi-layered ensemble models using TensorFlow, Gradient Boosted Trees, Random Forests to predict optimal fertilizers across diverse global crop datasets.
- Data reflected on web interface built using HTML, CSS and JavaScript for front-end and Flask for the backend.
- Integrated a MySQL database (managed via SQLYog) to store and continuously update user entries, crop characteristics, and prediction outputs, with automated database updates triggered by new user or crop submissions

Energy Risk Analytics Platform

Predictive Analytics

- End-to-end electricity market risk platform: Python/Plotly Dash dashboard covering VaR/CVaR metrics, price spike detection, and counterparty credit scoring across 15 counterparties.
- R-based ARIMA/Prophet 90-day forecasting on Pacific NW Mid-Columbia Hub prices (Prophet MAPE 25.9%, RMSE \$16.04/MWh).

EDUCATION

M.S. Information Management - Data Science & AI Engineering

Sep 2025 - Present

University of Washington · GPA 3.95/4

- Coursework: GenAI Engineering · Claude Code for Advanced Users · ML · Statistical Analysis · LLM Engineering

B.Tech. Information Technology

Aug 2019 - Jul 2023

University of Mumbai · GPA 3.7/4

- Coursework → Data Structures & Algorithms, Deep Learning, Software Engineering, Database Management, Applied Statistics

AI Engineering Certification

Aug 2019 - Jul 2023

University of Mumbai, IBM · GPA 3.75/4

- Coursework → Introduction to AIML, Natural Language Processing, Deep Learning, Pattern & Anomaly Detection
- Top 10% → IBM 4-year AI Engineering Certification (Distinction) · IBM AIML Digital Badge