

SHUBHAM MAHESHWARI

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SUMMARY

M.Eng. graduate in Computer Science from UConn with experience building and deploying ML models, RAG pipelines, and data-driven applications. Skilled in Python, PyTorch, LangChain, and MLflow with hands-on exposure to AWS and GCP. Databricks Generative AI certified. Seeking full-time roles in ML Engineering or Data Science.

EDUCATION

University of Connecticut, Storrs, CT

Aug 2024 – May 2026

Master of Engineering, Computer Science and Engineering (STEM), GPA: 3.36/4.00

Relevant Coursework: Machine Learning, Deep Learning, Data Mining, Cloud Computing

Gujarat Technological University, India

July 2019 – May 2023

Bachelor of Engineering, Computer Science and Engineering, GPA: 3.5/4.00

PROJECTS

Credit Risk Scoring Engine – Full-Stack ML Platform (Python, LightGBM, XGBoost, SHAP, FastAPI, React, MLflow, AWS)

- Trained LightGBM on 176K Lending Club records achieving AUC 0.7425 vs. 0.7170 logistic baseline; GPU-accelerated via CUDA with SMOTE; validated with bootstrap CIs and Wilcoxon signed-rank test across 5-fold CV.
- Engineered 8-class corporate credit rating model (AAA–D, S&P-aligned) with 67.2% exact accuracy and 94.9% within-1-notch; integrated Basel III stress test simulator with per-request SHAP explainability via REST API.
- Tracked 40+ ML experiments with MLflow; deployed FastAPI backend (7 endpoints, sub-100ms) and React dashboard on AWS EC2 with Docker containerization.

Explainable Multi-Modal Deep Learning – Capstone | (PyTorch, SHAP, Grad-CAM, MLflow, GCP Vertex AI)

- Designed gated fusion architecture achieving 96.64% accuracy, outperforming single-modality baselines by 14%; stress-tested under 10–30% noise with 18% higher accuracy retention; generated SHAP and Grad-CAM explanations per modality on GCP Vertex AI.

Insurance Risk Advisor – Deployed GenAI + ML Apps | (LangChain, LangGraph, Llama 3.1, HuggingFace, Streamlit)

- Built end-to-end RAG pipeline using ChromaDB vector database and sentence-transformer embeddings; extended with LangGraph agent routing between vector search and web-search; deployed on Hugging Face Spaces.
- Trained multi-class risk classifier on 50K+ records achieving 87% vs. 72% logistic baseline; deployed on AWS with real-time ML scoring, data drift detection, and automated retraining triggers.

EXPERIENCE

Sourcved Technologies, Ahmedabad, India

July 2023 – July 2024

Software Developer Intern

- Integrated ML inference endpoints into REST API-driven web applications; traced data flow from model backend to UI, identifying 3 classes of serialization bugs causing silent data loss in prediction pipelines.
- Reduced UI defect rate by 40% over two release cycles by introducing a pre-merge browser matrix checklist across Chrome, Firefox, and Edge, improving reliability of ML-powered feature rollouts.

Arth Infosoft Pvt. Ltd., Ahmedabad, India

Jan 2023 – May 2023

MERN Stack Developer Intern

- Designed MongoDB schemas with optimized embedding vs. referencing strategies to support high-throughput data workflows; built REST API endpoints feeding structured data into analytical dashboards and React front ends.

University of Connecticut Dining Services, Storrs, CT

Aug 2024 – May 2026

Student Manager

- Managed scheduling, payroll, and onboarding workflows for 40+ student employees; leveraged data analytics to optimize shift allocation and reduce scheduling conflicts by tracking attendance patterns and peak demand periods.

SKILLS

ML / AI: PyTorch, TensorFlow, Scikit-learn, XGBoost, LightGBM, SHAP, Grad-CAM, Feature Engineering, A/B Testing, Statistical Hypothesis Testing, Credit Risk Modeling, Model Monitoring & Data Drift Detection

GenAI & LLM: LangChain, LangGraph, RAG Pipelines, ChromaDB, Sentence Transformers, Groq (Llama 3), HuggingFace, Fine-tuning (LoRA / PEFT)

MLOps & Infra: MLflow, FastAPI, Streamlit, Docker, GitHub Actions, AWS (EC2, S3, SageMaker), GCP (Vertex AI, BigQuery), Databricks

Languages & Databases: Python (NumPy, Pandas, Matplotlib, Seaborn), SQL, Git, MySQL, PostgreSQL, MongoDB, Snowflake

Visualization & Other: Power BI, Tableau, React, REST APIs

CERTIFICATIONS & ADDITIONAL

Databricks: Generative AI Fundamentals | Databricks: Fundamentals Accreditation |

AI Fluency: Framework & Foundations – Anthropic

Microsoft Azure AI Essentials: Workloads and Machine Learning on Azure