

ROHIT AKOLE

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PROFESSIONAL SUMMARY

Generated \$185K+ in business value by deploying production-grade ML and LLM solutions across SaaS, product, and service-based environments. Achieved 83% forecast accuracy, reduced manual analysis time by 30% with NLP automation, and accelerated client onboarding through LLM-powered systems prefilling 350+ fields. Skilled at translating complex models into business outcomes through A/B testing, dashboards, and strategic communication with both technical and non-technical stakeholders. Proven in high-velocity startup settings; contributed to open-source modlee.ai project on GitHub and built scalable pipelines using Python, CI/CD, and cloud platforms.

EXPERIENCE

Data Scientist

January 2025 – April 2025

Alo Index

New York, NY

- **Tech Stack:** Python, SQL, Docker, REST API, AWS (Amplify, S3, DynamoDB, Cognito), GitHub (CI/CD), Ollama, Mistral, React.js, PyMuPDF, JSON
- Saved \$5.9K MoM by building and deploying critical compliance workflow, an in-house Extractive LLM tool with RAG and semantic search to map unstructured sustainability documentation to internal compliance frameworks.
- Generated \$120K+ in annual value by automating onboarding for new and existing clients. Built an NLP-driven autofill system using internal compliance frameworks to pre-score 350+ questions using React.js, accelerating acquisition, reducing manual effort, and confirming accuracy improvements through A/B testing on 50 clients per group, measuring success metrics (engagement, conversion rates) and rollout strategy.
- Collaborated with VP of Engineering and non-technical C-suite stakeholders to translate ML outputs into product features, shape roadmap priorities, and deliver measurable business impact in fast-paced startup.
- Implemented CI/CD pipelines to automate build and deployment workflows, using GitHub for version control and integrating with AWS Amplify to deploy a full-stack application with minimal manual intervention.

Data Scientist (Capstone)

December 2024 – May 2025

Stanley Black and Decker

Hartford, CT

- **Tech Stack:** Python, SAS Studio, SARIMAX, RNN, LSTM, API, Docker, Ollama, LLaMa3, Tableau
- Increased Achieved 83% accuracy by productionizing time series forecasting model using five years of historical data & external features like weather, housing values, enabling compliance to detect and resolve regional outliers.
- Cut analysis time by 30% and eliminated data entry errors by building a generative LLM pipeline with prompt engineering to extract 9 features from 3M+ unstructured dealer logs, accelerating issue triage for claims team.
- Streamlined faster executive decisions by building Python pipeline that integrated time series forecasts and LLM-extracted features into centralized Tableau dashboard, streamlining insights for monthly leadership reviews.
- Ranked 1st of 5 teams for delivering a production-ready solution, earning praise from non-technical SBD leadership for clarity, business impact, and standout presentation in a competitive capstone.

Senior Data Analyst

October 2019 – July 2023

Greetworld Holidays

Pune, India

- Reduced operational costs by 15% and boosted Net Promoter Score (NPS) by 12% through A/B testing and customer feedback analysis, guiding service enhancements and tour logistics optimization.
- Increased repeat bookings by 35% by developing segmentation models using customer demographics and booking behavior to identify high-value traveler cohorts for targeted campaigns.

Data Analyst

May 2015 – November 2016

Greetworld Holidays

Pune, India

- Boosted peak-season conversion by 18% by analyzing booking patterns and traveler segments to optimize property recommendations and seasonal pricing strategies.

- Reduced service downtime and improved onboarding efficiency by monitoring real-time metrics, resolving live system issues, and developing data workflows to support ranking and filtering enhancements.

TECHNICAL PROJECTS | [Full Project Portfolio](#)

Humana-Mays Healthcare Analytics Case Competition 2024 | *National Finalist (Top 10%)*

- **Tech Stack:** Python, XGBoost, CUDA, Scikit-Learn, Seaborn, NumPy, Pandas, Matplotlib
- Achieved 0.7686 AUC on 1.6M+ claims by training a CUDA-accelerated XGBoost model to identify patients at risk of missing preventive care, enabling scalable outreach interventions.
- Uncovered Informed a 37% projected increase in visit rates by uncovering key predictors (claims history, chronic conditions) and proposing targeted strategies like telehealth, mobile clinics, and direct outreach.

EDUCATION

University of Connecticut

Hartford, CT

Master of Science (M.S.), Business Analytics & Project Management

GPA: 4.00/4.00

- **Key Courses:** Statistics, Predictive Modeling, Deep Learning, Data Mining, Data Science using Python, Agile Methodologies, Data Management & Modeling, Business Decision Modeling
- **Graduate Teaching Assistant – Deep Learning:** Evaluated Neural Networks and transformer-based assignments; assessed models, loss curves, overfitting, and tuning strategies.

University of Bridgeport

Bridgeport, CT

Master of Science (M.S.), Technology Management (IT and Big Data)

GPA: 3.89/4.00

SKILLS

Programming: Python (Pandas, NumPy, Scikit-learn, Seaborn, Matplotlib, SciPy), SQL, PySpark, React.js

Modeling: Classification, Regression, Predictive Modeling, Time Series Forecasting, Dimensionality Reduction (PCA), SHAP, Text Mining, Feature Engineering, Sampling, Scaling, Model Evaluation, EDA, CUDA

ML & AI: Causal Inference, Natural Language Processing, Sentiment Analysis, Semantic Search, Recommender Systems

LLMs: Prompt Engineering, Generative AI, RAG, LLMs (LLaMa3, Mistral, Gemini), Ollama, PyMuPDF

Frameworks & Cloud: TensorFlow, PyTorch, XGBoost, AWS (Amplify, S3, DynamoDB, Cognito, SageMaker), Docker, APIs, REST APIs, OAuth 2.0, Postman

Analytics: A/B Testing, t-test, Statistical Modeling, Probability, Optimization (Linear, Non-Linear, Integer)

Version Control & Workflow: GitHub, CI/CD, JIRA, Agile, KPI Reporting, Lucidchart, Tableau

ACHIEVEMENTS

Leadership: President and Founder of [Modlee AI/ML Student Club](#). Hosting industry events, hackathons, and hands-on projects to upskill 200+ members.

Scholarships: Received merit-based scholarships in Spring 2024 and Spring 2025 for top academic performance.

Keynote: Delivered live [LLM email agent demo](#) at AI Day, engaged 50+ technical and non-technical professionals.

Recognition: Featured twice in University Weekly Scoop for campus-wide contributions to AI/ML advancement.

Hackathons: Won three hackathons and placed 1st in two and 2nd in one hackathon.

IBM Professional Certifications: [IBM Data Analyst \(2022\)](#), [IBM Data Science \(2021\)](#).