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
Alō 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
- 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.

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

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 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.

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, Exploratory Data Analysis (EDA), ETL, 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)](#).