

# ROHIT AKOLE

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## PROFESSIONAL SUMMARY

Delivered \$185K+ in business value through **production-grade Machine Learning, Natural Language Processing, and Large Language Modeling pipelines** across **B2B SaaS, product, and B2C service domains** in **fast-paced environments**. Proficient in **Python, SQL, Tableau, and cloud-native deployment (Docker, CI/CD, AWS)** to extract insights from unstructured data and forecast business-critical trends. Skilled in **cross-functional collaboration**, driving outcomes like 22% faster onboarding, 83% forecast accuracy via automated, stakeholder-aligned solutions. Collaborated with Modlee's engineering & leadership team to contribute to their open-source GitHub PR, focused on scalable ML pipelines.

## WORK EXPERIENCE

### Data Scientist | *Alo Index* | *New York, NY*

January 2025 – April 2025

- Saved \$5.9K MoM by building and deploying **in-house extractive LLM tool with Python, Docker, Mistral, Ollama, and PyMuPDF**, leveraging **RAG** to automate critical compliance workflow, mapping unstructured sustainability documents
- Generated \$120K+ annual value by automating onboarding for new and existing clients through **NLP-driven autofill system built with Python, React.js, and JSON**, pre-scoring 350+ questions mapped to internal compliance framework
- Accelerated client acquisition by 22% through **Python and SQL A/B testing experimentation** and segmentation across **50+ key client groups**, reducing onboarding time by 40%, informing go-to-market KPIs
- Boosted leads by 25%, **presented** data-backed **growth strategies to C-suite with Tableau**, shaped GTM initiatives
- **Deployed full-stack** application with zero-touch releases by implementing **CI/CD workflows in GitHub Actions, AWS Amplify, and Docker**; automated builds, minimized deployment time by 90%

### Data Scientist (Capstone) | *Stanley Black and Decker* | *Hartford, CT*

December 2024 – May 2025

- Achieved 83% accuracy by **productionizing time series forecasting model** using 5 years of historical trends and external features with **Python, SARIMAX, RNN, LSTM**, enabled compliance team to detect regional outliers
- Engineered **generative LLM pipeline with prompt engineering tuned by Ollama, LLaMa3, Docker, Python, APIs** to extract 9 features from 3M+ unstructured dealer logs, cutting analysis time 30% and eliminating manual errors
- Streamlined executive reviews by building **Python ETL pipeline integrating forecasts and LLM features into centralized Tableau dashboard**, reducing manual analysis time 40% for monthly reviews
- Ranked 1<sup>st</sup> for delivering \$1.5M+ projected value with **production-ready ML solutions**; **Led team of 4** using **Agile (standups, sprints, RACI) with JIRA, Python, Tableau** to shape roadmap and cross-functional strategy

### Senior Data Analyst | *Greetworld Holidays* | *Pune, India*

October 2019 – July 2023

- Cut operational costs 15% and raised NPS 12% through **A/B testing and feedback analysis**, driving service enhancements and tour logistics **optimization utilizing SQL, Python, Excel, Tableau**
- Devised **segmentation strategy using Python, Pandas, Scikit-learn, and SQL** on behavioral and demographic data, lifting repeat bookings by 35% through targeted outreach to high-value cohorts

### Data Analyst | *Greetworld Holidays* | *Pune, India*

May 2015 – November 2016

- Amplified traffic 18% via **data-driven property recommendations and seasonal pricing** using Excel, Tableau
- Optimized service downtime by 25% and improved onboarding efficiency by 30% by monitoring real-time metrics, **resolving live system issues**, & built ranking/filtering data workflows **using Python, SQL, GitHub, REST APIs, Tableau**

## EDUCATION

### M.S. in Business Analytics & Project Management | *University of Connecticut* | *Hartford, CT* | GPA: 4.0/4.0

May 2025

- **Key Courses:** Statistics, Predictive Modeling, Deep Learning, Data Science Using Python, Agile Methodologies, SQL
- **Graduate TA – Deep Learning:** Taught 140+ students, designed rubrics, evaluated DL & Neural Network assignments

### M.S. in Technology Management (IT and Big Data) | *University of Bridgeport* | *Bridgeport, CT* | GPA: 3.9/4.0

May 2019

## SKILLS

- **Programming and Libraries:** Python, SQL, PySpark, React.js, Pandas, NumPy, Scikit-learn, Seaborn, Matplotlib, SciPy
- **Modeling:** Classification, Regression, Predictive Modeling, Time Series Forecasting, Dimensionality Reduction (PCA), SHAP, Text Mining, Feature Engineering, Sampling, Scaling, Model Evaluation, Exploratory Data Analysis (EDA), CUDA
- **Machine Learning & AI:** Causal Inference, Natural Language Processing, Sentiment Analysis, Recommender Systems
- **LLMs:** Prompt Engineering, Generative AI, RAG, LLMs (LLaMa3, Mistral, Gemini), Ollama, PyMuPDF, Semantic Search
- **Frameworks & Cloud:** TensorFlow, PyTorch, AWS (Amplify, S3, DynamoDB, SageMaker), Docker, REST APIs
- **Analytics:** A/B Testing, t-test, Statistical Modeling, Probability, Optimization (Linear, Non-Linear, Integer), ETL
- **Version Control & Workflow:** GitHub, CI/CD, JIRA, Agile, Postman, KPI Reporting, Lucidchart, Tableau, PowerBI (DAX)

## TECHNICAL PROJECTS | Full Project Portfolio

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

- **Led team of 4** to achieve 0.7686 AUC on 1.6M+ claims by training **CUDA-accelerated Machine Learning Models**, choosing **best performing XGBoost model** with advanced feature engineering in Python
- Identified high-risk patients and designed targeted interventions **projected to increase preventive visit rates by 37%**

## AWARDS & LEADERSHIP

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- **Scholarships:** Received merit-based scholarships in Spring 2024 and Spring 2025 for top academic performance
- **Leadership:** President & Founder, Modlee AI/ML Club. Hosted events and hands-on projects upskilled 250+ members
- **Keynote:** Delivered live LLM email agent demo at AI Day, engaged 80+ technical and non-technical professionals
- **Recognition:** Featured twice in University Scoop for contributions to AI/Machine Learning advancement at UConn
- **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)