

ABHITAY SHINDE

(646) 225-0802 | abhitayshinde@gmail.com | New York, NY, USA | [LinkedIn](#) | [Portfolio](#)

EDUCATION

Columbia University

M.S. Data Science, GPA: 3.7/4.0

New York, NY

Sep 2024 - Dec 2025

- **Relevant Courses:** Agentic AI, Fintech, and Data Economy (PhD elective), Big Data Analytics, and Applied Machine Learning.

NMIMS University

B.Tech Honors in Computer Engineering and Data Science/Analytics, GPA: 3.9/4.0

Mumbai, IN

Jun 2020 - May 2024

HIGHLIGHTS

- **Media Mix Modeling (MMM):** Estimated incremental long-term LTV across acquisition channels; causal optimization revealed materially different channel rankings and informed budget reallocation, increasing long-term value by 12%.
- **Product Impact Analysis:** Observed a 110% engagement lift for a feed change, but after propensity-score matched difference-in-differences (DiD) 7-day retention effect was almost 0%, preventing an incorrect ship decision.
- **Root Cause Analysis:** Investigated a 15.4% post-launch ESAU decline; causal correction showed treated users had 14.8% fewer sessions, indicating aggregate drop was driven primarily by cohort mix and seasonality rather than feature.

PROFESSIONAL EXPERIENCE

Julius Baer

Data Science Researcher (Generative AI and Personalization)

New York, NY

Jun 2025 - Sep 2025

- Conducted causal and exploratory analysis on customer engagement and market data, driving a 25% lift in content engagement.
- Engineered LangGraph and Vertex AI personalization chatbot, autonomized content selection, and cut curation time by 35%.
- Established an engagement metrics framework, enhanced A/B test accuracy, guardrails, and reproducibility across research teams.

TD Bank

Data Scientist Apprentice (Customer Analytics and Segmentation)

New York, NY

Jan 2025 - May 2025

- Executed causal inference and A/B testing to evaluate fraud-detection strategies on 100M+ transactions, validating decisions.
- Designed XGBoost in Spark for fraud propensity scoring, raised PR-AUC from 0.20 to 0.67 (235%) and explainability via SHAP.
- Partnered with senior management and risk teams to inform segmentation, money laundry reduction, and credit strategy decisions.

Ask2AI

Quantitative Research Apprentice (Acquisition Analytics and Growth Optimization)

New York, NY

Jan 2025 - May 2025

- Deployed uplift modeling and experimentation to isolate incremental impact on acquisition, clarifying ROI attribution by 22%.
- Formulated regression and MILP optimization framework for acquisition allocation and raised customer lifetime value by 12%.
- Synthesized forecasting-driven causal insights to guide growth strategy, boosted acquisition rates and decreased churn by 25%.

Columbia University

Teaching Assistant (Algorithms to Data Science)

New York, NY

Sep 2024 - Jan 2025

- Advised 250+ MS students, bridging ML algorithms with product-focused analytical reasoning and experiment frameworks.

Navin Fluorine International Limited

Data Scientist (Predictive Maintenance and Operational Analytics)

Mumbai, IN

May 2023 - Nov 2023

- Architected predictive maintenance framework, cut downtime by 35%, scheduled KPI ingestion and decreased latency by 40%.
- Rolled out anomaly-detection systems to surface high-risk events earlier, lifted recall by 15% and reduced maintenance periods.

E-Revbay Pvt. Ltd.

Founding IT Intern (Acquisition and Retention Analytics)

Mumbai, IN

Dec 2021 - May 2022

- Led development of customer acquisition and analytics pipelines using Equifax bureau data, to improve customer leads by 50%.
- Streamlined dashboards and root-cause pipelines, eliminated manager intervention time by 25% and enhanced response speed.

TECHNICAL SKILLS

- **Data Engineering:** Python, SQL, Spark, Hive, Hadoop, Pandas, NumPy, Airflow, Tableau, Qlik Sense, Docker, Git.
- **Machine Learning:** Regression, Ensemble Trees, LSTM, GNN, Clustering, PCA, Forecasting, Causal Inference, A/B Testing.
- **Analytics & Experimentation:** Causal Analysis, Root Cause Analysis, Metric Design, Hypothesis Testing, Statistical Modeling.
- **Generative AI & LLMs:** RAG, LangChain, LangGraph, Hugging Face, Vertex AI, OpenAI APIs
- **Cloud & Infrastructure:** AWS, GCP, Vertex AI, MLOps, Data Pipelines, Jupyter, Databricks, BigQuery, Notion, Excel.

LEADERSHIP EXPERIENCE

- Founding team member for analytics products (MyLoanBhai, TestMyPolicy, FinQy 2.0), driving product innovation and growth.
- Scaled analytics-driven product operations across 35 cities and 3 countries, supporting sustained customer retention.
- Led applied research across risk modeling, NLP, and predictive analytics, translating models into product decisions.
- Delivered high-recall and forecasting ML systems, achieving 0.92 recall and 87.8% accuracy in production settings.