Shubham Khode

Chicago, IL | linkedin.com/in/shubhamkhode | www.shubhamkhode.me

EDUCATION

University of Illinois Chicago

Master of Science in Business Analytics (GPA: 4.0/4.0)

August 2021 - December 2022

August 2012 - April 2016

Veermata Jijabai Technological Institute (VJTI), Mumbai, India

Bachelor of Technology in Electronics & Telecommunications Engineering (GPA: 7.5/10)

SKILLS

- Technology: Python, SQL, R, C#, PySpark, AWS, GCP, Snowflake, Databricks, Alation, Trifacta, Git, Tableau, Power BI, ThoughtSpot
- Core Competencies: Data Mining, Machine Learning, Predictive Modeling, Statistical Analysis, Causal Inference, Time-Series Forecasting, A/B Testing, Hypothesis Testing, Feature Engineering, Data Visualization, EDA, NLP, ETL, Jira, SDLC, Agile

PROFESSIONAL EXPERIENCE

Caremark LLC | Senior Data Scientist | Chicago, IL

February 2023 – Present

- Design, develop, and refine robust, scalable machine learning and optimization solutions across wide range of complex business problems in support of pharmacy supply chain
- · Prototype advanced algorithms with time-series forecasting, predictive modeling, and anomaly detection techniques to foresee potential outcomes, derive meaningful insights, and foster informed decision-making
- Collaborate with cross-functional teams and business stakeholders to formulate data-driven hypotheses and opportunities
- Utilize cutting-edge, industry leading tools to identify new use-cases ensuring alignment with long-term strategic business goals

Chicago Transit Authority | Data Science Analyst Intern | Chicago, IL

September 2022 – December 2022

- Extracted 5+ years of asset maintenance data using Redshift and performed an in-depth analysis to spot key trends & anomalies
- Developed statistical risk models using Prophet, ARIMA, & XGBoost for predicting the cost of asset failures and its impact on ridership; applied multiprocessing and grid search techniques to observe forecasts with MAPE of 1.76
- Assigned risk scores for maintaining assets over time and created decision-support dashboards in Power BI to aid business heads in optimally prioritizing and allocating ~\$100M of asset rehabilitation funds

Wipro Limited | Data Analyst | Vienna, Austria

August 2019 – June 2021

- Conducted data analysis on customer profiles as well as their products, services, and upgrade cycles to discover underlying patterns for mitigating churn rate; made recommendations to bump up retention by 15%
- Applied A/B testing on different variants of landing/product pages for optimizing client's online shop; lifted click-through probability and conversion rate by 7% with a marked increase of ~\$5M in revenue flow
- Designed ETL pipelines to fetch and manipulate data from disparate transaction database systems and consolidate it into a data warehouse for downstream BI reporting & analytics
- Identified borderline credit risk customers using ensemble ML model; redesigned order workflows resulting in 2x faster lead time
- Built interactive Tableau dashboards for quick, actionable insights on core business KPIs; saved 8 hours/week in manual reporting

Wipro Limited | Software Engineer | Pune, India

August 2016 – July 2019

- Analyzed consumer behavior and utilized prescriptive analysis for fine-tuning the portfolio of a leading telco client based on levers such as voice/data volume, speed, add-ons, and promotions; observed ARPU uplift of ~3%
- Implemented complex SQL scripts for applying pseudonymization as per EU GDPR compliance; transformed millions of customer records with sensitive information using data masking procedures
- · Automated log management with an integrated framework developed using Python to monitor application activity and performance; improved bug resolution time on production by 35%, saving ~\$500K/year
- Developed and enhanced 5+ business-critical web applications in .NET to provide a unified experience for users across platforms

PROJECTS

Fine-grained, Scaled Forecasting of Walmart's Retail Sales (Python, Spark, Forecasting)

- Analyzed influence of factors like markdowns, holidays, fuel price, temperature, etc. on weekly sales data with 450K+ observations
- Built hundreds of time-series models in parallel by leveraging distributed data processing in Spark and generated precise forecasts for each store-department combination, achieving an 87% reduction in time for training collection of models

Loan Default Prediction and Investment Decisions for Lending Club (R, EDA, Classification)

- Performed univariate, multivariate, and correlation analysis to identify key characteristics and driving features behind loan defaults
- Trained models like Decision Tree, Random Forest, and GBM for predicting probability of loan default as well as estimating expected annual returns; evaluated performance using AUC, ROC, and lift curves and combined best models that maximized ROI

Spotify – Popularity Analysis and Recommendation (*Python, Tableau, Regression*)

• Investigated the effect of acoustic features such as energy, danceability, valence, etc. across millions of top-charts songs and derived insights to build song popularity prediction regressors and recommendation systems