Colby Reichenbach

336-661-5278 | colbyrreichenbach@gmail.com | linkedin.com/in/colby-reichenbach/ | https://github.com/ColbyRReichenbach

SUMMARY

Data analyst skilled in Python, SQL, and machine learning, with hands-on experience in predictive modeling, data visualization, and A/B testing. Developed multiple end-to-end projects, applying statistical methods to real-world datasets. Passionate about leveraging data to drive insights and optimize decision-making.

PROJECTS

Customer Churn Data Insights and Prediction

Skills: Python, Machine Learning, Data Visualization, Predictive Modeling, Feature Engineering

- Built a customer churn prediction model using Logistic Regression (84% accuracy) to identify high-risk customers.
- Conducted Exploratory Data Analysis to uncover key churn.
- Recommended data-driven retention strategies, improving customer engagement and long-term contracts.

Marketing Campaign A/B Testing and Funnel Analysis

Skills: Python, A/B Testing, Statistical Analysis, Marketing Analytics, Data Visualization

- Analyzed 1,143 ad campaigns, identifying high-ROI strategies using A/B testing & Chi-Square analysis.
- Uncovered inefficient ad spending, leading to budget reallocation & 8x conversion improvement.
- Built conversion funnels to optimize user engagement, click-to-conversion rates, and ad creatives.

Finance Data Pipeline & Machine Learning | (Currently in Development)

Skills: Python, SQLite, Yahoo Finance API, LSTM, XGBoost, Real-Time Data Processing

- Built a real-time financial data pipeline with Yahoo Finance API, updating stock data every 15 minutes.
- Developed machine learning models for market anomaly detection & stock forecasting.
- Designed a live dashboard via Streamlit visualizing market trend, sector performance, and predictive analytics.

E-Commerce Analytics Dashboard

Skills: Data Visualization (streamlit, plotly), SQL, Python, Machine Learning (K-Means)

- Developed an interactive E-commerce Analytics Dashboard (Python, Streamlit, Plotly, SQL) to visualize key
 performance indicators including revenue, product performance, and shipping logistics, providing actionable
 insights for business optimization.
- Implemented a K-Means customer segmentation model to identify high-value vs. at-risk customer groups, enabling targeted marketing strategies.
- Ensured credential security using Streamlit secrets and designed a modular structure for scalability.

EDUCATION

University of North Carolina at Chapel Hill

August 2024

BS in Biology, Minor in Data Science

• Relevant Coursework: Statistics and Data Science, Machine Learning and Ethics, Scientific Programming

SKILLS

• Programming & Data Analysis: Python (Pandas, NumPy, Scikit-Learn), SQL, R

- Machine Learning & AI: Regression, Classification, Time Series Forecasting, Anomaly Detection
- Data Engineering & Databases: SQL, Web Scraping, API Integration & Data Retrieval
- Data Visualization & Reporting: Tableau, Matplotlib, Seaborn, Plotly, Streamlit
- Statistical Analysis: Hypothesis Testing (A/B Testing, T-Tests, Chi-Square, Z-Tests, ANOVA)
- Soft Skills: Data Storytelling, Business Insights, Communication, Problem-Solving

PROFESSIONAL EXPERIENCE

Target, Team Member, Chapel Hill, NC

Aug. 2021 - Pres.

- Assisted customers and maintained inventory to support operational efficiency.
- Collaborated with team members to analyze sales trends & improve product placement.

Mosquito Authority, Facilities Technician, Winston Salem, NC

May 2022 – Aug. 2022

- Maintained and repaired equipment to ensure smooth field operations.
- Documented inventory & expenses, helping optimize resource allocation.

GRIT Performance, After-School Program Facilitator, Advance, NC

Jan. 2016 - Sep. 2019

- Organized and supervised athletic & educational programs for students.
- Built strong relationships with parents & staff to enhance student engagement.