

Romy Wadhwa

(513) 879-8749 • wadhwaromy32@gmail.com • wadhwaromy1006@gmail.com • [LinkedIn](#) • [Github](#)

• Available to work Full time from May 2023

WORK EXPERIENCE

National Fertilizers Limited

Vijaypur, India

Senior Data Analyst (Assistant Shift Manager)

Aug 2016 – Aug 2022

- Developed a **Random Forest** based model in Python for prediction of ammonia production which helped in inventory management and procurement of natural gas, leading to savings worth **\$300k** annually
- Collaborated with diverse teams to analyze data via SQL and developed a software in Visual Basic Applications (VBA) and Microsoft Excel to generate automated reports for stakeholders
- Utilized Tableau, Google Looker Studio and PowerBI in the Business Intelligence team to create data driven dashboards for tracking KPI, enabling executive decision-making and enhancing product analytics.

EXL Services

Gurgaon, India

Consulting Analyst (Manager – Advisory)

Jan 2016 – Aug 2016

- Performed data analysis on catalyst performance for a major polyethylene manufacturer resulting in efficiency gain of 0.6% which translated into surplus yield worth **\$1.1 million**
- Generated insights from data for offering business-travel consulting solutions to a client portfolio of \$600M+ across FMCG, PE, financial, and healthcare sector

SKILLS

Languages: Python, R, VBA | **Framework:** Pandas, NumPy, Scikit, Statsmodels | **Statistical Modelling:** Regression, Trees, Random Forest, Gradient Boosting | **Database:** Postgre SQL, MySQL | **Visualization tools:** PowerBI, Tableau, Matplotlib, Google Looker Studio, Knime, MS Excel, Google Sheet

EDUCATION

University of Cincinnati, Carl H. Lindner College of Business, Cincinnati

Aug 2022 – Aug 2023(Expected)

Master of Science in Business Analytics: GPA 3.9/4.0

Birla Institute of Technology and Science, Pilani University

Aug 2011 – July 2015

Bachelor of Engineering (Honors) Chemical

PROJECTS

University of Cincinnati- Center for Business Analytics

Cincinnati, Ohio

Business Analyst (Graduate Assistant)

Aug 2022 – Dec 2022

- Analyzed patient logistic data for a major health care firm to determine the optimum number of held beds required for a balance between revenue and emergency care provision, increasing the **efficiency by 15%**
- Simulated incoming patient scenarios by testing multiple statistical distributions on various temporal attributes

Customer Behavioral analysis for Telecom Giant

Aug 2022-Dec 2022

- Created multiple customer personas based on parameters such as demographics, usage and tech literacy
- Generated behavioral insights to develop targeted marketing campaigns and improve operational strategies for customer support and service

Data-Driven Decision Making: Forecasting Term Deposit Subscriptions

Dec 2022 – Jan 2023

- Analyzed 48k+ customer data to predict whether a customer will subscribe to the bank's term deposit through direct marketing campaign
- Achieved ROC AUC score of 0.81, 0.84, 0.87 through logistic regression, KNN, and Naive Bayes respectively

Intelligent pricing strategy for E-commerce platform

Aug 2022 – Nov 2022

- Developed multiple predictive models using tree-based algorithms and boosting methods to predict laptop prices using Root Mean Square error as the objective function and evaluation metrics for performance testing

Optimizing Customer Loyalty: An Analysis of Churn

Aug 2022 – Nov 2022

- Performed analysis on leading telecom company's 100K row dataset to minimize customer churn on monthly basis
- Built models using tree-based methods with an F1 score upwards of 0.80 to predict if a customer would churn

Stochastic Modelling of Stock Price using Euler-Maruyama Algorithm

Jan 2019 – Jun 2019

- Developed a financial model in Python for predicting stock market price based on Euler-Maruyama algorithm
- Leveraged the model for pricing of call and put options for multiple blue-chip stocks on Indian Stock Exchange