RISHABH PATIL

Boston, MA | (857) 437-9616 | patil.rish@northeastern.edu | www.linkedin.com/in/rishabhpatil03

EDUCATION

Northeastern University, College of Engineering, Boston, MA

Candidate for Master of Science in Engineering Management| Data Analytics| **GPA: 4.00**   May 2023
- Relevant Coursework: Data Mining in Engineering, Database Management Database Design, Operations Research, Probability and Statistics

BACHELOR

Visvesvaraya Technological University, Karnataka, India

Bachelor of Science in Computer Science Engineering| GPA: 8.04   Sept 2022
- Relevant Coursework: Database Management System, Python Programming, Database Application Laboratory, Data Mining

SKILLS

Programming Languages: Python, R, JavaScript

Libraries and Frameworks: NumPy, Pandas, Seaborn, Scikit-learn, ggplot, matplotlib, TensorFlow, Keras, PySpark, plotly, XGBoost

ML/DL Models: Naïve Bayes, k-nearest neighbors, SVM, RidgeRegression, Lasso, Logistic regression, xgboost, CNN

Analytical Tools: Tableau, MS Excel, Google Sheets

Databases: MySQL, MongoDB

PROJECTS

Instacart Basket Prediction | Principal Component Analysis, Random Forest Regression, XGBoost   Feb 2022-Present
- Performed EDA to discover patterns and anomalies in the data, and inspected the association between various predictors by visualization techniques using seaborn
- Conducted dimensionality reduction using PCA on customer segmentation based on purchase history, product placement features to identify and create clusters using k-means
- Application of Linear Regression, Random Forest Regression, Decision Trees and XGBoost on the dataset to compare results
- Utilization of algorithms and association rules to identify products with optimum support, lift, and confidence metrics which aids in decision making by formulating cross-selling and up-selling opportunities over products purchased together

Cancer Mortality Rate Predication| Data Forecasting   Oct 2021 – Jan 2022
- Implemented Data cleaning and Data visualization techniques on raw data leveraging python libraries of NumPy, Pandas and Seaborn
- Built a regression model applying Random Forest to predict cancer mortality rates (death rate) in US countries from a preaggregated dataset acquired from a number of sources
- Trained various regression models using Hyper parameter tuning
- Determined Random Forest regressor is a perfect fit after utilizing performance evaluation metrics on trained models

Bank Marketing Campaign Analysis| Northeastern University   Aug 2021-Nov 2021
- Implemented data cleaning and Exploratory Data Analysis on raw data using python libraries of NumPy, Pandas and Seaborn Performed Univariate and Bivariate Analysis to understand central tendencies and indicate linear or non-linear relationship between variables
- Split data into train and validation set to validate results of model on validation set
- Built a model that can capture non linearity and predict subscribers by learning simple decision rules inferred from the data feature

Analyze Impact of Covid-19 Outbreak | Northeastern University   Aug 2021-Nov 2021
- Utilized Data Visualization tools in MS Excel to discover patterns from historical data and identify type of distribution
- Performed hypothesis T-testing to determine at what degree states were affected by covid outbreak
- Led Anova Single factor testing to compare variance of each dataset to identify state that had a better control over the Covid-19 outbreak and which state had room for improvement

PROFESSIONAL WORK EXPERIENCE

Nuclear Power Corporation of India Limited   December 2018 - January 2019

Junior Web Developer
- Communicated with board of members at training centre and developed a software module for keeping track of training of employees using ColdFusion
- Took insights from employees and improvised a feedback/Course Evaluation form to take responses from employees and evaluate training given by trainer on certain parameters
- Delivered insights to improvise feedback form operating Excel

LEADERSHIP/COMMUNITY SERVICE

Member of Rotaract Club   Aug 2016 –Sept 2020
- Volunteered to help organize Republic Day event at a government school
- Attended meetings to give feedback on the work done and plan future activities for the club.