YASH BHAVSAR

61 Smith St, Boston, MA 02120
774-433-0083 | bhavsar.ya@northeastern.edu | https://www.linkedin.com/in/yash-bhavsar99/

Education

Masters, Analytics
Northeastern University, Boston, MA **Expected April 2023**
GPA: 3.7/4.0
Minor in Machine Intelligence.
Relevant Coursework: Probability theory and Introductory Statistics, Database Management Systems, Communication and Visualization, Intermediate Analytics, Enterprise Analytics and Fundamentals of AI.

Bachelor of Technology, Computer Engineering
Pune University, Pune, India **May 2020**
Minor in Data Science.
Relevant Coursework: R Programming, Descriptive Analytics, Predictive Analytics, Project Management, Big-Data Analytics, Practitioner's Approach for Data Analytics.
Competed in Smart India Hackathon to develop a smart traffic manipulation system to dynamically calculate density of vehicles to manipulate junction signals and reduce queue length and wait time using CNN model with object detection APIs.

Professional Experience

Data Analyst Intern **June 2019 - July 2019**
KICKTRANS TECHNOLOGIES, Pune, India

- Led groups to create Power BI and Tableau dashboards for Marketing Analysis for clients.
- Conducted Exploratory Data Analysis, Text Mining to derive high-quality information from reviews.
- Devised Text Classification Machine Learning models using CART and Random Forest Algorithm to examine most affecting words to perform semantic analysis of customers.

Web Development Intern **June 2018 - July 2018**
RE DEVELOPERS, Nagpur, India

- Built and presented prototypes of web pages following 7 Golden rules of Human-Computer Interaction leveraging Proto.IO and MS-Office PowerPoint to stakeholders.
- Collaborated to design E-R Diagrams and develop a three-tier architecture for company's website using HTML, CSS, PHP, and MySQL.
- Constructed, maintained, and manipulated data using SQL scripts, as well as database functions such as views, triggers, stored procedures, and subqueries.

Technical Skills

- Programming Languages: R | Python (OOP & Data Science Libraries) | C++ | SQL.
- Web tools: HTML | CSS | JavaScript.
- Tools & Frameworks: Hadoop | Tableau | Power BI | MS-Office Excel | TensorFlow | R Shiny | ETL (Talend).
- Database Technologies: MySQL | Oracle 10g | HDFS | MS SQL.
- Techniques: Data Analysis | Data Visualization | Data Mining | Exploratory Data Analysis | Predictive Modelling | Hypothesis Testing | Cross-Validation| Supervised & Unsupervised Machine Learning | Simulation | Regularization | V lookup | Pivot Tables | Storytelling | Time Series Forecasting | Data Imputation | Excel Solver | Power Query | Optimization | Power Pivot | Excel Macros | Statistical Inference | Natural Language Processing.
- Operating Systems: Linux - Fedora, Ubuntu, Windows - 10,11.

Projects

PREDICTION OF SALES PRICE OF HOUSES IN AMES, Intermediate Analytics **October 2021**

- Implemented Data Imputations on blank values, EDA, and Hypothesis Tests to gain insights on variables.
- Created 500 models to predict price by applying Stepwise Multiple Linear Regression, and regularization by Lasso and Ridge Regression.
- Performed K-fold cross-validation, measured goodness of fit leveraging 4 metrics to select best performing model and answered business questions by storytelling and deploying a dashboard.

Data Warehouse, Database Management System **June 2021**

- Deployed ETL pipelines by extracting IMDB data from a variety of databases and flat files.
- Constructed Dimension Model by implementing ETL techniques- SCDs and Normalization.
- Built dashboard using BI Tool Tableau to understand data.

FACIAL KEY POINTS DETECTION, Coursera Guided Project **August 2020**

- Augmented data to increase volume of image dataset by 2 times to improve generalization capabilities.
- Trained deep learning model based on Convolutional Neural Network with Keras and TensorFlow 2.0 as a backend to detect facial key points and improved network performance deploying dropout.
- Assessed performance of trained CNN and its generalization by key performance indicators to verify required accuracy of 89%.