BHARATH PURUSHOTHAMAN

Indian Institute of Technology Kanpur

Academic Qualifications

Program	Institution/Board	%/CGPA	Year
M. Tech. (Aerospace Engineering)	Indian Institute of Technology Kanpur	8.9/10	2021-present
B.E. (Aeronautical Engineering)	Madras Institute of Technology, Anna University	9.28/10	2016-20
Class XII	Don Bosco Mat. Hr. Sec. School-Egmore	97.25%	2016
Class X	Don Bosco Mat. Hr. Sec. School-Egmore	99%	2014
Kev Projects	O		

1. SpaceX Falcon 9 first stage Landing Prediction *

(IBM Data Science Capstone Project)

*Online

- Objective: To train a Machine Learning model to predict successful Stage 1 recovery.
- **Approach:** Collected Data from Public SpaceX API and web scraped from Wikipedia. Explored data using SQL, visualization, folium maps, and dashboards. Used Four machine learning models and visualized their accuracy scores.
- Impact: Achieved 87.32% accuracy with the Decision Tree Model. The other three Classification models (KNN, SVM, and Logistic Regression) had less accuracy when compared with the former.
- 2. Formulating Business Strategy for Cyclistic Bikesharing Company *

(Google Data Analytics Capstone Project)

- **Objective:** To increase profitability by converting casual riders to annual members via a targeted marketing campaign.
- **Approach:** Collected Cyclistic historical bike trip data to identify trends in the usage of bikes. Initially analyzed the data using a spreadsheet, then used R packages for data cleaning and analysis. Also created Dashboards using Tableau.
- **Impact:** Found the busiest casual riders' day/month/weeks and suggested that promotions must be done at those specific timelines. The price could be decreased during the work hour to boost casual ridership.
- 3. Predicting Credit Card Fraud with R *

(Coursera Project Network)

- Objective: To identify fraudulent credit card transactions with a variety of classification methods.
- **Approach:**Explored data, trained, and evaluated decision tree, naïve Bayes, and Linear discriminant analysis classification models using R. Generated synthetic samples to improve the performance of the models.

Professional Certifications

- o IBM Data Science Professional Certificate
 - Honed hands-on skills in Data Science and Machine Learning. Became familiar with using a variety of data science tools, learned Python and SQL, performed Data Visualization and Analysis, and created Machine Learning models.
- o Google Data Analytics Professional Certificate
 - Hands-on skills in cleaning and organizing data for analysis, completing analysis and calculations using spreadsheets, SQL, and R programming and then visualizing and presenting data findings in dashboards using Tableau.

Relevant Courses

- 1. Probability and Statistics for Business and Data Science*
- 2. Python for Everybody Specialization: Getting Started with Python and Python Data Structures (2 courses)*
- 3. Data Structures and Algorithms (U.G.elective)

Technical Skills

Programming Language: C, C++, Python, R, MATLAB
Databases: BigQuery,IBMDB2,MySql
Tools: Tableau, Rstudio, JupyterNotebook

Scholastic Achievements

- o Giri Brothers Award for the **Best Project** and secured **2nd rank** in the department in Bachelor's Programme.
- o Secured All India Rank 113 in GATE 2021.
- o Consecutively awarded **General Proficiency** in Classes X, XI, and XII.
- o Fr. Gatti Gold Medal for securing rank 1 in Class X and Past Pupils Association Award to the best student in Academics.
- o Mr.Strong's Galada **Rolling Trophy for overall performance** in Academics from Class VI to X.

Positions of Responsibility

• General Representative of Department(U.G)-Organized skill-based Composites Workshops during Symposium. Conducted yearly inauguration and farewells for incoming and outgoing students. Organized alumni meet every year.