Data Scientist
Phase 1, Hinjewadi
Pune, Maharashtra 411057
https://www.linkedin.com/in/rasik-jain-79a18519a/

Rasik Jain

+91-6354259293
+91-9601259301 (whats app)
rasik.jain@mtech2017.iitgn.ac.in
rasik6627265@gmail.com
D.O.B: 17/06/1996

Education

Indian Institute of Technology Gandhinagar (IITGN) — **Gandhinagar, Gujarat** — **July 2017 – June 2019**

- **M.Tech. in Mechanical, CGPA: 7.5**
- **Research Project:** Modelling and Simulation of Active vibration control system for a flexible structure (plate) using finite difference method.

Chhattisgarh Swami Vivekananda Technical University (CSVTU) — **Bhilai, Chhattisgarh** — **June 2013 – June 2017**

- **B.E. in Mechanical, CGPA: 8.99**
- **Research Project:** To design and developed a working model of air cushion vehicle (ACV) or hovercraft.

Work Experience

Data Science Trainee — **Almabetter, Bangalore, KA** — **June 2021 – Present**

- Fundamental of python, introduction to NumPy, Introduction To Pandas, Pandas operation, Introduction to data visualization using Matplotlib and Seaborn.
- Ml calculus, Linear Algebra, probability theory, descriptive and inferential statistics, Hypothesis testing, A/B testing.
- Introduction to Machine Learning, Linear Regression Implementation, Bias-Variance Tradeoff, Regularized Linear Regression, Cross-Validation & Hyperparameter Tuning, Logistic Regression, Decision Trees, Ensembles of Decision Trees, K-Nearest Neighbors, Naive Bayes Classifier, Support Vector Machines, Neural Networks, K-Means Clustering, Hierarchical Clustering, Principal Component Analysis, Anomaly Detection, Introduction to Natural Language Processing, Topic Modeling, Recommender Systems - Collaborative Filtering, Content Based Filtering,Time Series Analysis

Product Engineer — **Rightbot Pvt. Ltd., Bangalore, KA** — **June 2020 – June 2021**

- Focuses on development of robots for picking totes and cardboard boxes in warehouses.
- Manufactured parts and components using plethora of manufacturing process and machines like laser cutting, water jet cutting, electrical discharge machining, 3D printing (FDM & SLA), VMC, CNC wood and plastic cutters etc.
- Managed vendor selection and communicate requirements to vendors. Task management on JIRA
- Contribute to development of innovative solution to difficult problems in warehouse automation domain

Product Design Engineer — **Addverb Technology, Noida, UP** — **July 2019 - June 2020**

- Worked with a team of mechanical engineers on design,innovation and production of products related to warehouse Intra-logistic automation domain such as automated guided vehicle (AGV), autonomous mobile robot (AMR), pallet stacker crane, pallet shuttle system, sorter robot, safety trolley, roller, belt and chain conveyors etc.
- Coordinate with purchase, quality control, manufacturing and project management team to resolve any design related issue impacting onsite projects or in-house production and to improve product design.
- Prepared bill of material (BOM), design calculation, product specification and assembly documentation, animation and presentation using MS-Office, NX-MCD, blender and filmora

Projects

NYC trip prediction

- Built a regression model using linear regression, Decision tree regressor and XGBoost models to predict taxi time in NYC.
- Used a folium graph to visualize the pickup and drop o locations.
- Employed processing techniques such as feature scaling, outliers treatment, missing values and performed sampling to generate train and test data.
- Applied Lasso and Ridge regularisation for optimizing the t of the model and hyperparameter tuning, which resulted in an Adjusted R square score of 0.71 on the test data

Credit card default prediction

- Developed a binary classication model using algorithms such as XGBoost and SVC to predict whether a customer will default on credit card payments.

- Carried out feature engineering. Implemented SMOTE boosting to oversample the minority class observation and carried out hyperparameter tuning.
- XGBoost provided the best result giving a recall of 85%

Customer Segmentation

- Built a clustering model using k means clustering and PCA on a transactional dataset that contains all the transactions occuring between 01/21/2010 and 09/12/2011 for a UK based and registered non store online retail.
- Applied feature engineering to obtain new features such as Frequency, Monetary and FMscore for getting more details about the customer.
- Obtain the optimal number of clusters using silhouette analysis and Elbow method and Similarlity identied the optimal clusters and dendrogram from hierarchical clustering

Skills & Software

- **Software:** MATLAB, MS-office, Latex, Postgresql, PowerBI, Tableau, Jupyter notebook ,Google Colab Notebook, Advanced Excel
- **Libraries:** NumPy, Pandas, Matplotlib, Seaborn, Sklearn, Tensorflow, Keras, SciPy
- **Programming Languages:** C, C++, Python, SQL **Languages:** English, Hindi