

Tanisha Rajpal

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Profiles

Tanisha Rajpal
Linkedin

tanisharajpal1223
Github

Education

B.tech in Computer Science
Vellore Institute of Technology
CGPA - 9.16
2021 - Present
Degree

Higher Secondary Education
Mittal International School
83.6%
2019
Marksheet

Skills

Expertise in Languages & Tools (x/5)
Python - 4.2 || R - 4.1 || SQL - 4.3 || Excel - 4.1
|| Git - 4.1 || Docker - 4.0 || Power BI - 4.1
Tags: Window Function, CTE, Pivot Table

Platform
Jupyter Notebook, VS Code, Google Colab,
Postgre SQL, DB Visualizer

Libraries
Pandas, NumPy, Sci-kit Learn, Matplotlib,
Seaborn

Relevant Coursework

Data Analysis with R Programming
May 2023
Coursera
Built Projects like Customer Segmentation,
Health Insurance Cross Sell Prediction,
Google Data Analytics Case Study, EDA,
Excel & Power BI Dashboard
Classification, SQL, K-Means Clustering, Feature
Engineering, Schema Design, R-programming

Certifications

Hackathon Certificate
Bajaj Finserv
July 2023
Certificate

Computer Vision Certificate
Vityarthi
Jun 2023
Certificate

SQL Intermediate Certificate
HackerRank
Feb 2023
Certificate

Publications

How Flipkart Optimizes Delivery Operations
Using Data Science
Medium
Feb 2025
Medium Blog

Dedicated and ambitious **data science enthusiast** with strong **problem-solving** and **analytical skills**. Proficient in **Python, R, SQL, MS Excel, Machine Learning, Statistics, and Power BI** with a track record of delivering **successful data-driven solutions**. Eager to contribute **meaningfully** to **organizational growth** while continuously **honing skills** further.

Training Experience

Hewlett Packard Enterprise
Project Intern
01/2024 - 05/2024
Internship Certificate

- Orchestrated development and optimized **high-performance storage system** using **Distributed Asynchronous Object Storage (DAOS)** on Intel hardware with **CentOS 7.9 VM**, enhancing efficiency by **25%**
- Configured **firewall settings** and **enabled SSH** for remote access across **3 VMs**, ensuring secure and reliable remote operations with a **100% boot success rate**.
- Executed **Python** scripts for **object storage interactions**, achieving a **20% increase in reliability**.
- Spearheaded system performance through new **feature implementation** and code refinement, **resulting in 15% improvement**.

Projects

United India : Health Insurance Cross Sell Prediction : Classification
05/2024 - 06/2024
Github

- Developed **classification models** to identify **health insurance policyholders** likely to be **interested in vehicle insurance**, for optimizing **marketing strategies** and **boosting revenue**.
- Applied **VIF, SMOTE, and MinMaxScaler** for **feature engineering, data preprocessing, and scaling**, along with **label encoding** for transforming categorical data.
- Implemented **logistic regression, decision tree, and XGBoost algorithms**, and **evaluated their performance** using **precision, recall, and accuracy metrics**.
- Achieved **88% prediction accuracy** with the **Decision Tree** model using **grid search** and **k-fold cross-validation**, for **boosting vehicle insurance customer acquisition** by **25%**.

HSBC Analytics : Banking Customer Segmentation : Clustering
04/2024 - 05/2024
Github

- Developed an **unsupervised clustering model** using **HSBC credit card usage data** to **optimize targeted marketing** and **enhance cross-selling and upselling strategies**.
- Applied **VIF, StandardScaler, and median imputation** for **feature engineering, scaling, and data preprocessing**, along with **IQR** for outlier detection.
- Applied **k-means clustering** with the **elbow method** and **validated clusters** using a **Decision Tree classifier**, achieving **precision, recall, and accuracy scores above 90%**.
- Delivered **targeted recommendations** for **savings plans, loans, and investment products** based on **customer segments**, for **boosting engagement and profitability** by **18%**.

Airbnb Booking Analysis : Exploratory Data Analysis : Python
02/2024 - 03/2024
Github

- Conducted **Exploratory Data Analysis (EDA)** on **Airbnb NYC 2019 data** to **identify business growth obstacles** and provide **insights for enhancing revenue and efficiency**.
- Used **Pandas and NumPy** for **data preprocessing, addressing missing values, adjusting data types, and removing outliers** using **box plots and capping techniques**.
- Used **Matplotlib and Seaborn** to create **visualizations for analyzing KPIs**, including **room types, neighborhood popularity, price distribution, availability, and number of reviews**.
- Recommended expanding listings** in high-demand neighborhoods, **improving less popular room types**, and **increasing the availability of top properties** to **boost revenue** by **20%**.

Achievements

Global rank 971 - GeeksforGeeks
May 2023
GeeksforGeeks
GeeksforGeeks
Secured a global rank of 971 in Python and DSA

Coding Hackathon - NIT
Feb 2022
National Institute of Technology
NIT
Competed in Codeathon, an inter-NIT coding competition

Interests

Chess, Travelling, Meditation, Painting