

Akash Ramaraj

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ABOUT

Data enthusiast, Have an ability to analyze the problem and come up with solutions; constantly improving my skills to become better version of myself.

EDUCATION

WOOLF UNIVERSITY

SCALER NEOVARSITY

MS IN COMPUTER SCIENCE

SPECIALIZATION IN AI AND ML

March 2022 - Present | Remote

Degree - 90 ECTS Credits

Till now completed 8 different Case studies in different domains.

VELLORE INSTITUTE OF TECHNOLOGY

B.TECH IN ELECTRICAL

2020 | Chennai

GPA: 8.75/10.0

LINKS

- Github:// Akash
- LinkedIn:// Akash Ramaraj
- Tableau:// Akash Ramaraj
- Medium:// Akash
- Scaler- Profile:// Akash R

CERTIFICATION

- Google Data Analytics Professional Certificate, Coursera, Remote
- 98-381:MTA: Introduction to Programming using Python

SKILLS

Familiar:

- Numpy, Pandas
- Matplotlib, Seaborn
- Scipy, SciKit Learn, TensorFlow
- MySQL
- Tableau
- Statistical Data Analysis (Hypothesis Testings)
- Machine Learning

Beginner:

- R
- Plotly, Dash

EXPERIENCE

BANK OF AMERICA CONTINUUM TECHNICAL ANALYST - 2

July 2020 – Present | Chennai

- **Automated the repetitive manual task** on Health check for applications. Developed a report using **python** which will alert the team if there is any disruption in process - **saved 27 hours per month** of my team manual efforts.
- Support 8 applications which involves from booking to collecting price, calculating the different attributes for a trade and displaying the trades to traders.
- Created a dashboard which will contain all the import jobs and feed delivery to monitor efficiently and also setup alert system in ITRS Console.

PERSONAL PROJECTS

CAR PRICE PREDICTION

- Data - Used Car's Prices in Unites States are given in the data with 25 features
- Used **Python** libraries to analyze, do **statistical testing** and Predicted Price using **Random Forest regression** model which gave .93 as R2 score for validation data, Built the web application using **streamlit** to get prediction for car price from web application.
- Used R2 Score with Cross validation to evaluate the models, Tested with **Linear, Lasso and Ridge** with different **Polynomial** Features.

LOAN APPROVAL PREDICTION

- Dataset of Online Platform which gives out loan - **Binary Classification**
- Analysed data to get better idea about features using **seaborn** and **statistical test**
- Tested data with **Logistic regression, Decision Tree** and **Random Forest** Classifier Algorithm, Evaluated with **Accuaray, Percision and Recall** score and found Random forest Classifier Algorithm does better job in classifying the data with 97 percent recall for 0.4 threshold - Focus is on False Negative, To avoid give loans to defaulters.

MOVIE RECOMMENDATION SYSTEM

Built a recommender system with **User Based similarity** and **Item based similarity** by using **Pearson Correlation, Nearest Neighbors** using **Cosine Similarity** and **Matrix Factorization** techniques.

EXPLORATORY DATA ANALYSIS ON

1. MOBILITY PLATFORM DATA USING PYTHON

- Derived **great insights** from data set by analyzing it using data visualization and statistical tests
- Tests used - **T-test, Chi-Square Test, Anova**
- Analysis done in **Python Jupyter Notebook**

2. BIG BOX DEPARTMENT STORE CHAIN DATA USING SQL

- Data is based out of Brazil, Acquired information from data like where **delivery time better, worst** and find the **interesting trends** of purchases in a **day, month and year** wise respectively.
- Techniques used to get above insights are **Window Functions, CTE and Joins**.

TABLEAU DASHBOARD

- Sales Analysis - **Sales Analysis**
- IPL Player Analysis - **IPL Analysis | Tableau Public**

AWARDS

- **Silver Award** for saving 27 hours per month in manual effort.
- **Gold Award** for Analysing the issue and combining with different teams to solve the issue before it caused the major business impact for traders.