



BHARATH BOMMEESHWAR K

DATA ANALYST/DATA SCIENTIST

With 7+ years of experience in hydrographic Survey and data processing ,I am excited to expand my skillset into the field of data science, driven by my fascination with machine learning and artificial intelligence. My goal is to use data-driven solutions to contribute to the growth of companies and I have been acquiring *programming, statistical* and *machine learning* skills to achieve this. With a passion for innovation and a solid foundation in data analysis ,I am confident in my ability to excel in the field of data science and provide value to organizations.



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Tirupur,Tamilnadu,India

Education

Praxis Business School
[Aug2022 - Apr2023]

**Post Graduate Program in
Data Science & AI**

82.21%

AMET University
[July2010 - May2014]

**Bachelors in Harbour
Engineering**

82.5%

Vikas Vidyalaya
[2008 - 2010]_State Board

High Secondary School

85.9%

Vikas Vidyalaya
[2008]_State Board

Secondary School

89.2%

Linguistic skills

Read Write Speak

- | | | | |
|-----------|---|---|---|
| • English | ✓ | ✓ | ✓ |
| • Hindi | | | ✓ |
| • Tamil | ✓ | ✓ | ✓ |
| • Kannada | | | ✓ |

PROJECTS

1.ATM TRANSACTION DATA ANALYSIS IN POWERBI

Objective: *The project aims to identify the growth opportunities and optimize operations of ATMs based on insights derived from analyzing the transactional data.*

- Collected customer demographics and necessary ATM transactional data of a fictitious bank from public repository.
- Processed the data in **Power Query Editor**, including data type adjustments, column removal, and establishing table relationships.
- Utilized **DAX** to create calculated columns and measures for analysis.
- Developed relevant **business questions** to address the main problem statement and used visualizations to uncover insights.
- Created an interactive dashboard for easy understanding and presentation, accompanied by a Power point report.
- Presented actionable recommendations to enhance services and operational efficiency based on the discovered insights.

🔗 [Google drive Link : ATM Transaction data analysis with Power BI](#)

2.TOURIST PLACE RECOMMENDATION SYSTEM

Objective: *To build a recommendation system to suggest places for tourists based on their description.*

- We a team of five individuals conducted a project involving the scraping and analysis of tourist spot reviews and related details in India from website like TripAdvisor.
- The scraped data was **cleaned and preprocessed**, which includes the removal of punctuation, stop words, etc. as well as manual imputation of missing data.
- K-means clustering was applied to the **Word2Vec** embedded data to group similar places and reduce search complexity for easier feature extraction.
- **Features and opinions** about each place were then extracted
- The team experimented with various combinations of embeddings to identify the most effective ones that resulted in better suggestions when user input was provided.
- Peer validation was conducted on a scale of 1 to 4 based on the suggestions made by the recommendation system

🔗 [Google drive Link : Recommendation system tourists destinations](#)

3.GEMSTONE PRICE PREDICTION

Objective: *Build a model to predict the price of the gem stone and to identify the important variables which would help to increase the profit of the store.*

- Performed Exploratory Data Analysis(EDA) for preliminary insights.
- Used **Multiple linear regression** model to predict the price of the gem stones and identified the significant variables.
- Evaluated the model using Error metrics like **MAE** and **RMSE**.
- Checked the **Assumption of Linear regression** model for the dataset.
- Used other **Non-parametric models** for prediction and compared the model performance.

🔗 [Github Link : Gem stone Price prediction](#)

Software skills

- { Programming :
["Python","R"],
- Visualization:
["Tableau","PowerBI"],
- Databases:
["MS Sql Server","Postgresql"],
- Others:
["Ms Excel","Google Cloud Platform"]}

Areas of Interest

- Data analysis and visualization
- Natural language processing
- Recommendation system
- Deep learning

Certifications

- 🔗 IBM Data Science Professional Certificate Course - Coursera (On progress)
- 🔗 4Week Data Science Boot Camp Analytics Club - IIT Bombay
- 🔗 The Structured Query Language (PostgreSQL) - Coursera
- 🔗 Python for Data Science, AI & Development - Coursera
- 🔗 RDBMS And SQL Intermediate (MS SQL Server) - Classroom
- 🔗 Intermediate R - DataCamp
- 🔗 Data Analysis with Excel - DataCamp
- 🔗 Intermediate Data Modelling with PowerBI - DataCamp

4.E-COMMERCE SALES ANALYSIS(Tableau visualization)

Objective: To Create interactive dashboards that helps to identify insights, patterns and trends from the ecommerce sales data followed by providing suggestions for improving sales.

- Conducted comprehensive sales analysis to assess overall performance and track changes in total revenue over time.
- Identified top-selling products and product categories that significantly contribute to revenue generation.
- Analyzed average order value, considering variations by product category and payment method to understand customer buying patterns.
- Examined sales performance by region, identifying profitable regions for potential expansion and growth opportunities.
- Evaluated customer acquisition and retention rates, monitoring changes to measure the effectiveness of marketing and retention strategies.

🔗 [Tableau Link : Sales Analysis Ecommerce](#)

5.CREDIT RISK DEFAULT

Objective : The goal is to build a machine learning model that can predict the probability of a customer defaulting on a loan.

- Data preprocessing which includes removing duplicates, data formatting, removing outliers, missing value imputation using KNN imputer.
- Calculated WOE values to make variable transformation and Information Value to identify the significant variables followed by VIF check.
- Used logistic regression model to predict the probabilities of default for each observation using the WOE transformed data.
- Used random forest ensembling to identify the significant variables and utilized non-parametric models for prediction.
- Hyperparameters of the models were tuned to improve models performance.
- AUROC and F1 Scores were used to evaluate the model predictions.

🔗 [Github Link: Hackathon - Praxis](#)

6.TIME SERIES ANALYSIS CLOSING STOCK PRICE FORECAST

Objective: To predict the closing stock price of a company using time series prediction models.

- Imputed the missing values in the dataset using forward/backward filling.
- Visualized the data to understand the level, trend and seasonality present in the data.
- Checked for stationarity in the data using statistical test _ (ADF) test.
- Used correlogram plots to identify the significant lags followed by choosing the appropriate model.
- Trained various model types such as Heuristic models, Exponential models, and Arima models using the past closing price instances to predict the future closing price based on the characteristics of the data.
- Used error metrics such as RMSE and MAPE to evaluate the model performance.

🔗 [Github Link: Timeseries - Praxis](#)

7.Other projects:

- Sentiment analysis using Amazon Reviews of a product,Spam-ham classification,Heart diseases Classification,House price prediction, Flower image classification(CNN),Stock price prediction using RNN,Attrition classification,Tax payers political party_Multiclass prediction,Hotel reservation cancellation prediction,genome prediction,etc.

🔗 [My github repository](#)

Work experience [Jul2014-Apr2022]

Throughout my career, I have excelled in various roles such as Surveyor, Survey Data Processor, Survey Engineer and Technical Support. These positions primarily involved hydrographic data collection, processing and analysis for marine construction and ship navigation. I played a crucial role in ensuring accurate data capture by utilizing specialized equipment and conducting thorough data processing. Additionally, I took on additional responsibilities such as equipment installation, calibration, and troubleshooting to optimize survey operations. Furthermore, I had the opportunity to train and mentor junior surveyors, enhancing my leadership and communication skills.