LakshmiBhaarathi E

Data Science

lakshmibhaarathiofcl@gmail.com 8778423787 Bangalore
linkedin.com/in/lakshmibhaarathi-e github.com/lakshmibhaarathie

Profile

Analytical minded, self-starter looking for job opportunities in Data Science. Having graduated in zoology got interested in data science for the wonders I could do with this in the real world. I have done many end-to-end machine learning projects during my Data Science Bootcamp. NLP fascinates me a lot. I am presently doing an internship in NLP that involves Deep Learning techniques and deployment in AWS, AZURE cloud environments. I have posted all my projects in a readable manner in GitHub, kindly find the profile link above. Curious towards finding solutions in the Data driven world.

Skills

Python **SQL** **mongoDB** **Numpy**

Pandas **Machine Learning** **NLP** **Deep Learning**

Data Visualization **Computer Vision** **PowerBI** **MLOps**
Matplotlib, Plotly, Seaborn

FastAPI

API Development

Professional Experience

Data Science Intern, *Ineuron Intelligence Pvt. Ltd.* 12.2022 – present | Bangalore

Aim

Customer rating prediction for a restaurant.

Roles & Responsibilities:

- To perform EDA and provide valuable insights.
- To build a machine learning model predicting the customer ratings.
- Make the model available for future predictions using CI/CD pipelines and Dockers.
- To deploy the model in AWS and AZURE environment.
- Prepare a High Level Document and Low Level Document to the project lifecycle.

Aim

News Article Sorting with ***NLP.***

Roles & Responsibilities:

- To clean and perform EDA on the news article data.
- To perform Feature extraction with BOW, Tf-Idf, Hashing Vectorizer, and Word2Vec.
- Building both Machine learning and Deep learning models for article classification.
- Make the model available for future predictions using CI/CD pipelines and Dockers.
- To deploy the model in AWS and AZURE environment.
- Prepare a High Level Document and Low Level Document to the project lifecycle.

Projects

Housing Price Prediction in Chennai

AIM

To help real estates by predicting the housing prices in Chennai with previous data and providing some quality insights to promote the success of business.

- Feature engineering involved handling missing values and encoding the categorical variables.
- Exploratory Data Analysis part get done with Plotly and Matplotlib.
- Machine learning algorithms used :
  - Linear Regression
  - Decision Tree
  - XGB
- The models got evaluated with R2 value and XGB hits the list.
- It was then deployed in Heroku for prediction.
- Now we can predict the price of a house with the given parameters.

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APS Sensor Fault Prediction, *An Industry Standard Machine Learning Project*

AIM

The problem is to reduce the cost of unnecessary repairs caused by APS sensors in Trucks.

- Featuring engineering involved handling missing values with the following methods.
  - **Simple Imputer** - **KNN Imputer**
- As the data was highly imbalanced it got handled by **SMOTE** technique.
- Being a classification problem several classification machine learning used namely :
  - Logistic Regression
  - KNN Classifier
  - Random Forest Classifier
  - CatBoosting Classifier
  - XGB Classifier
- Of all the techniques used XGB Classifier and Simple Imputer with strategy constant gave better results.
- The model was then prepared for continuous development following **CI/CD** pipelines.
- The final model is made available for production environment using **Docker.**
- The model is then deployed in **AWS** for future predictions.

Education

Full Stack Data Science, *Ineuron Intelligence Pvt. Ltd.,* 05.2022 – present | Bangalore

Masters in Data Science and Advanced Programming, 2021 – 2022 | Chennai
Guvi Geek Network Pvt. Ltd.,

B.Sc. Zoology, *St.Xavier's College.* 2017 – 2020 | Palayamkottai

Certificates

- IIT-Madras Certified Masters in Data Science and Advanced Programming
- Python
- LIVE metaverse Datathon 1.0