KARUPPASAMY V

Data Scientist | ML Engineer

+91 73393 68926
karuppasamy12041998@gmail.com
https://kpayyam1998.github.io/Portfolio_KP/
Chennai,Tamilnadu

SUMMARY

With a solid foundation built upon 2 years 3 months software development along with hands-on experience in data analysis and machine learning. I've honed my skills in programming languages and frameworks and have a knack for tackling complex technical challenges.

With my expertise in data manipulation, analysis, data science and machine learning model development, I'm excited about the prospect of applying these skills in a data scientist role to drive meaningful impact and contribute to innovative solutions.

EXPERIENCE

HRG (Hogg Robinson Group)

IGT Solutions

01/2023 - Present Chennai,TamilNadu

- I am currently involved in the development of the HRG online travel booking application, which facilitates flight, car, hotel, and rail reservations. This application is built using BizTalk and C programming language.
- Specifically designed for UK Government and UK Commercial users and Govt of Canada, with exclusive booking capabilities.
- Primary responsibilities include handling the BizTalk component, encompassing flight,car,hotel,rail search, fare details, payment processing, booking, cancellation, and related all functionalities Addresses and resolves any errors in the BizTalk module and related to bookings(Before,After) we should have to fix it.
- We have used one Tracking Viewer tool to identify what errors throwing on that particular PNR/LSD and also identify which part of the biztalk module in the code.
- Gained 1+ year of experience with the HRG online travel booking application, covering approximately 40product's extensive functionalities.Many functionalites are implemented still i am learning.

Associate Software Engineer

UST Global

10/2021 - 01/2023 kerala

- As a fresher started my career from UST global.Where I learned lots about IT environment,team coordination, collaboration work and all.
- specifically UST had given traning for coding.
- In this project part my role was integration.it is like there was so many interfaces available every interface has gotXML files.
- In every interface have separate jar files,we have to run that jar file and take the report sent to the client.Suppose if we got any error in XML files we need to find errors and fix that error re-run again and take report.

EDUCATION

Master of Computer Application

Mepco Schlenk Engineering College

2018 - 2020

GPA 8.3 / 10.0

Bachelor of Computer Science

Sri S Ramasamy Naidu Memorial College

2015 - 2018

GPA 6.8 / 10.0

High School

Government Higher Secondary School

2014 - 2015

GPA 7.8 / 10.0

TECH STACK

Programming Languages

Python **SQL**

Library

numpy **pandas** **matplotlib** **scikit-learn** **flask** **streamlit** **tensorflow-keras** **genai**

Tools

VS-Code **Jupyter-Notebook** **PowerBI**

PROJECTS

IPL Score Prediction

Machine Learning

- I developed an end-to-end machine learning model to predict IPL match scores based on historical match records. This involved cleaning and preprocessing the IPL dataset by addressing missing values, removing irrelevant rows and columns, and filling in empty values.
- To enhance the model's predictive capabilities, I engineered relevant features by incorporating domain knowledge and insights from exploratory data analysis (EDA). Subsequently, I split the dataset into training and testing sets to evaluate the model's performance on unseen data
- For model training, I implemented the ML Linear Regression algorithm on the training dataset and finetuned hyperparameters for optimal performance.
- I then evaluated the model's performance using regression metrics such as Mean Absolute Error, Mean Squared Error, and R-squared.
- Furthermore, I developed a complete web application using the Flask framework. I integrated my machine learning model, converted to a bin file, into this application to predict IPL match scores in real-time.
- **Languages: Python**
- **Libraries : Pandas NumPy,matplotplotlib,scikit-learn,Flask**
- **Tools: Jupyter Notebook, VS Code**

ADDITIONAL SKILLS

Data Science

Raw-data **Exploratory Data Analysis**

DataCleaning/Missingvalues **Data Visualization**

Data Preprocessing **Model building** **Feature Engineering**

Statistics **PowerBI** **NLP**

Machine Learning

Linear Regression **Logestic Regression** **DecisionTree** **KNN**

GenAI **LLM** **LargeLanguageModel**

Azure

Azure Fundamentals **Azure Data Factory** **Azure Data Lakes**

Azure Databricks **Azure Synapse Analytics** **Azure Pipeline**

Azure Storage

CERTIFICATION

Microsoft Azure AZ-900

Microsoft Azure AI-900

Numpy , Pandas , Statistics , PowerBI , Datascience Bootcamp

LANGUAGES

English
Proficient

Tamil
Native

PROJECTS

Face Detection

https://github.com/kpayyam1998/Face_Detection_CNN.git

DeepLearning

- Implemented a Convolutional Neural Network (CNN) for face detection, leveraging deep learning techniques.
- Extracted features from input images utilizing convolutional filters, capturing hierarchical features effectively.
- Applied pooling layers to downsample feature maps, retaining crucial information while reducing dimensionality.
- Subsequently, transformed 2D feature maps into a 1D vector for input to dense layers, facilitating classification.
- Utilized densely connected layers for classification, enhancing the model's predictive accuracy. Trained the CNN model on a comprehensive dataset of labeled images using the Keras deep learning framework.
- Transformed 2D feature maps into a 1D vector for input to dense layers.
- Employed techniques such as batch normalization and dropout to regularize the model, mitigating overfitting, and enhancing generalization performance on unseen data.
- Trained the CNN model on a large dataset of labeled images using the Keras deep learning framework.
- Implemented techniques such as batch normalization and dropout to regularize the model, prevent overfitting, and improve generalization performance on unseen data.
- **Languages: Python**
- **Libraries : pandas,numpy,matplotlib,scikit-learn ,tensorflow.keras**
- **Tools: Jupyter Notebook**

REFERENCES

KRISH NAIK

https://github.com/krishnaik06/The-Grand-Complete-Data-Science-Materials.git