Karumudi Bharath Simha

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SUMMARY

Graduate Data Scientist familiar and passionate about using data science techniques to solve challenges. As a post-graduate in Data Science from a top 10 UK University, interested in positions involving the application of machine learning techniques to derive insightful data for the company. Enthusiastic and keen on working with vast amounts of data and implementing predictive models. Highly organised and attentive with a sophisticated understanding of modelling approaches such as machine learning and statistics.

SKILLS

Programming Languages: Python, R, SQL

Hard Skills: Machine Learning, Natural Language Processing, Data Analytics, Deep Learning, Data Visualisation, Artificial Intelligence

Tools: Jupyter Notebook, Tableau, MS Excel, LaTeX

Cloud Services: Amazon Web Services

Soft Skills: Problem Solving, Work Ethic, Communication, Adapatability

ACADEMIC PROJECTS

Spatio Temporal Drivers of Anxiety 2022
Project studies the dynamics of anxiolytic prescriptions over time using the English Indices of Deprivation (IOD) as a co-variate. Time series forecasting models are used to generate results at different levels of granularity. This project is part of the dissertation (research).

Lloyds Simulated Customer Transactional Data Project 2022
Project identifies patterns and behaviours of the customers using transactional data. Feature extraction and machine learning methods are used to develop created credit card recommendation and business category classification models. Data is simulated and is provided by Lloyds Banking Group.

Occupation Demographics in England & Wales (Tableau Dashboards) 2022
The Dashboards provides interactive visualisations and insights to the user regarding the demographics of occupation in England & Wales (2011).

Word Frequency Application Scaler using Amazon Web Services 2022
Project sets up auto-scaling functionality to a word frequency application using Amazon Web Services. Services like: EC2, SQS, Dynamo DB, and S3 bucket are used. The project automates the application task and increases the efficiency at which the output is carried.

Predictive Modelling of Fifa-22 with Linear Regression using L1 Regularisation 2022
Project performs predictive modelling of football players (overall ratings) using Linear Regression. Hyperparameter tuning using L1 Regularisation is used to increase the prediction accuracy. Football video game (FIFA 22) dataset is used.

Semantic Segmentation using Pixel Transposed Convolutional Networks 2021
Project resolves the checkerboard problem in transposed convolutional layers by introducing Pixel transposed convolutional networks. Dimensionality reduction is used to make the neural networks less complex.

COVID-19 Future Forecasting using Supervised Machine Learning Models 2020
Project creates a system for predicting the risk of COVID-19 outbreak globally. This system analyses the dataset containing the day-wise actual past data and makes predictions for upcoming days using machine learning algorithms.

WORK EXPERIENCE

Intern Data Scientist | ZeoMinds IT Solutions Pvt Ltd Jan 2020 – June 2020
Worked on multiple projects which involved Machine Learning, Exploratory Data Analysis and Pattern Recognition as part of the software product development and successfully met the objectives that were set at the beginning of the projects.

EDUCATION

Master of Science (MSc), Data science - The University of Bristol 2021 - 2022
Important Units: Statistical Computing and Empirical Methods | Large-Scale Data Engineering | Introduction to Artificial Intelligence | Advanced Data Analytics

Bachelor of Engineering in Computer Science - GITAM University 2017-2021
Important Units: Database Management Systems | Data Mining and Data Warehousing | Machine Learning

PERSONAL INTERESTS / HOBBIES

- **Sports:** I like to play and watch a variety of sports, with football (Real Madrid & Chelsea) being my favourite, followed by Formula One (Ferrari) and cricket.
- **Musical Instruments**: I enjoy playing the guitar and keyboard.
- **Video Games**: I love playing video games, especially the AAA titles (The Last of Us) with strong narratives. I also like to play multiplayer video games like FIFA.
- **Music & Podcasts**: I enjoy listening to all kinds of music and I listen to a significant number of podcasts in my free time.