Jagatheesh P

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https://github.com/Jaga-droid

EDUCATION

MSc Data Science   **Edinburgh, Scotland**

Heriot-Watt University   **May 2024**

Relevant Modules: Big Data Management, Data Visualization and Analytics,
Data Mining and Machine Learning, Statistics, Biologically Inspired Computation

Bachelor of Technology in Computer Science and Engineering   **Thanjavur, TamilNadu, India**

SASTRA University   **May 2019**

Relevant Modules: Data Mining, Machine Learning, Artificial Intelligence,
Discrete Mathematics, Data Structures and Algorithms

SKILLS

Python, Machine Learning, Natural Language Processing, SQL, Tableau, JavaScript, Object-oriented
programming

WORK EXPERIENCE

Merit Software Services Limited   **Chennai, TamilNadu, India**
Machine Learning Engineer   **Jan 2020 - Nov 2021**

• Constructed robust software system foundation utilizing Python programming language, improving
system maintainability and scalability.

• Applied NLP techniques such as document classification and topic modelling to unstructured web-
scraping data, resulting in a 30% increased accuracy of results.

• Developed PDF page classifier prototype to accurately remove irrelevant pages from customer
healthcare data sets, increasing efficiency by 45%.

• Created a component that assigned categories to news articles using NLP rules and keyword
identification, improving user experience by 30%.

Gofrugal Technologies Private Limited   **Chennai, TamilNadu, India**
Software Engineering Intern   **Dec 2018 - Apr 2019**

• Collaborated with software development and testing team members to create robust system solutions,
improving user experiences by 50%.

• Optimized **ManageEasy** --distribution billing software written in VB.NET-- for enhanced scalability,
performance and functionality by streamlining various processes; identified & resolved various issues
with the product.

• Developed a biometric login system for a Kenyan supermarket's POS billing system, leveraging
Secugen API to ensure customer security and significantly reduce unauthorized login attempts

PROJECTS

Merit Software Services   **Chennai TamilNadu**
Private Limited   **Oct 2020**

Time Series forecasting

• Conducted an introductory session on Time Series Forecasting using python for the Machine Learning team.

• Explained fundamental concepts such as trend, seasonality

• Applied techniques such as prophet, ARIMA (Auto-Regressive Integrated Moving Average) and LSTM (Long Short Term Memory) on the Tata Global Beverages dataset to predict the closing stock price. ARIMA outperformed the other techniques in this case with a lower RMSE(root-mean-squared-error)

Great Learning   **Chennai TamilNadu**
                                                              Oct 2019 - Dec 2019

Trend and sentiment Analysis of Zomato operations

• To realize the significant factors of a restaurant that appeal to customers using the data of restaurants registered to Zomato, an online food delivery platform akin to the likes of Deliveroo and Uber Eats.

• Conducted EDA to distinguish key features influencing customer ratings of restaurants and analysed 200,000+ customer reviews with VADER Sentiment Analysis to uncover hidden trends.

• Originally, the target variable was the 'average rating' for a restaurant which we binned into 5 different classes based on different ranges. Thus, we approached this problem as a classification problem rather than as a linear regression.

• Applied machine learning algorithms utilizing Decision Tree and Random Forest approaches to predict customer ratings with 94% accuracy on average.

• Utilized extreme Gradient Boosting for precision predictions based on up-to-date trends & sentiment analysis, boosting predictive performance.

Great Learning   **Chennai TamilNadu**
Prediction of Autism in children   **Jul 2019 - Sep 2019**

• To diagnose children with autism at an early stage with the aid of a carefully curated questionnaire

• Applied machine learning algorithms utilizing logistic regression to predict the existence of autism with over 90% precision and recall respectively.

CERTIFICATIONS

1. Deep Learning Specialization – Andrew Ng

2. Great Learning Data Science Program

3. Blockchain: Foundations and Use cases