

# Jagatheesh P

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## EDUCATION

**Heriot-Watt University**  
*Msc Data Science*

**Edinburgh,United Kingdom**  
*Graduation Date: May 2024*

**SASTRA University**  
Bachelor of Technology in Computer Science and Engineering

**Thanjavur, TamilNadu, India**  
*Graduation Date: Aug 2019*

## WORK EXPERIENCE

### DataKirk

*Data Science Trainee*

**Edinburgh, United Kingdom**

*Apr 2024 - Present*

- As a DataKirk Work Experience program participant, collaborated with a diverse team of peers to develop and execute data science projects, enhancing teamwork, communication, and project management skills.
- Utilized various data science tools ( Python, SQL, Excel, Tableau) to analyze and interpret complex datasets
- Presented findings to peers and program leaders, effectively communicating actionable insights lucidly.

### Merit Software Services Limited

*Junior Machine Learning Engineer*

**Chennai, TamilNadu, India**

*Jan 2020 - Nov 2021*

- Constructed a robust software system foundation utilizing Python, 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

*Software Engineering Intern*

**Chennai, TamilNadu, India**

*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.

## PROJECT EXPERIENCE

### Heriot-Watt University

*DupliDetect*

**Edinburgh, United Kingdom**

*Jan 2024 - Apr 2024*

- Constructed a plagiarism checker that takes text as input and classifies the submission based on varying degrees of plagiarism from low to high.
- Applied Natural Language Processing techniques to obtain text readability, level of hyperbole, and writing style consistency from the given submission.
- Built Decision Tree, Naive Bayes, Support Vector Machine and Logistic Regression classifiers with the latter yielding 96% accuracy and an F1-score of 95%.

### Heriot-Watt University

*ALBA Upliftment Project*

**Edinburgh, United Kingdom**

*Sep 2023 - Nov 2023*

- Analyzed multiple years of SIMD data to identify trends and patterns in the most deprived regions, resulting in a targeted strategy to reduce overall deprivation in Scotland.
- Utilized 7 different clustering algorithms to analyze and identify Birch, Gaussian, and K-means as the most effective for identifying target variables using which decision trees were built with an accuracy of 94%, which gave the 5 most affected areas in Scotland.
- Collaborated with teammates to develop a Convolutional Neural Network algorithm that identifies areas with high substance abuse using still images from security feeds.
- Applied feature engineering and various techniques to overcome bias-variance errors in models.

### Merit Software Services Limited

*Time Series forecasting*

**Chennai, TamilNadu, India**

*Sep 2020 - Oct 2020*

- Conducted an introductory session on Time Series Forecasting using Python for the Machine Learning team

- Applied techniques such as prophet, ARIMA and LSTM on the Tata Global Beverages dataset to predict the closing stock price and it was observed that ARIMA outperformed the other techniques in this case with a lower RMSE(root mean-squared-error)

## Great Learning

Chennai, TamilNadu, India

*Trend and sentiment Analysis of Zomato operations*

*Oct 2019 - Dec 2019*

- To realize the significant factors of a restaurant that appeal to customers using the data of restaurants in Zomato, an online food delivery platform akin to Deliveroo and Uber Eats.
- Originally, the target variable was the 'average rating' for a restaurant which we binned into 5 different classes based on different ranges thus converting a linear regression problem to a classification problem.
- Applied machine learning algorithms utilizing Decision Tree and Random Forest approaches to predict customer ratings with 94% accuracy on average.

## SKILLS

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**Programming Languages:** Python( numpy, pandas, sci-kitlearn, nltk, spacy, tensorflow, pytorch), Javascript

**Data Science and AI:** Machine Learning, Statistics, Deep Learning, Natural Language Processing

**Database Management:** SQL, MongoDB

**Tools:** Tableau, Microsoft Excel, MLFlow