

# Sabarinath Muralidharan Sujatha

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## SUMMARY

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- 3 years of IT industry experience with a year of experience in Data science using various Machine learning and Deep learning algorithms
- Working experience & extensive knowledge in Python (Scikit-learn, Pandas, TensorFlow, NumPy, Matplotlib, Seaborn), AWS, SQL, Java, Mean, Unix
- Achieved awards for the best performer for the agility and innovation in completion of tasks during the work tenure
- Graduate route visa enabling to work in the UK without visa sponsorship for two years

## WORK EXPERIENCE

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### OMDNA

**Remote**

*Machine Learning Engineer*

*December 2022 - Present*

#### **Omdena Serbia Chapter**

- Built an AI predictive system based on historical weather and hydrological data of the last 50 years in Belgrade area to prepare the local communities and to improve the protection against possible floods

### UST

**Trivandrum, India**

*Data Scientist*

*April 2020 – August 2021*

#### **Infinity Labs**

- Built a disease prediction system to predict the various common diseases among the citizens of US thereby reducing the manual workload of clinicians by 60%
- Upgraded the existing case creation process by automating it through an IVR system using AWS which maximized the savings by more than 70% over traditional contact centre solutions
- Improved the efficiency of the clinicians to 180% by creating chatbots using NLU tools like Google Dialogflow and Microsoft power virtual agents to increase the precision and rate of data gathering, thereby promoting better health management and patient coverage resulting in savings of over 2 million dollars for the client

*Software Developer*

*July 2018 – April 2020*

#### **Client Subsystem**

- Achieved a record of completing 96 data loading requests in a single day where different membership and provider data from different sources were mapped and loaded as per the client's requirement, which minimized the overall workload of the team by around 80%
- Utilized Oracle SQL Developer to add contract codes and groups to the several health insurance policies as per the requirement using SQL queries

#### **WMDS, ECC & TriMed**

- Analysed the defects in the utilization management applications, fixed their security vulnerabilities, and contributed to the performance enhancement of those web applications by adding additional functionalities which improved the time complexity of case creation
- Handled the discrepancy in the data of employees present in the oracle fusion and active directory which led to improvement in the proficiency of the ticket resolutions by 30%

## EDUCATION

**University of Liverpool**

**Liverpool, UK**

*Master of Science in Data Science and Artificial Intelligence*

*Distinction*

- Dissertation: Machine Learning for Football Player Performance Analysis
- Collaborated with a team of 6 other students to conduct a literature review on AI in cancer.
- Relevant Coursework: Python programming, Research methods in CS, Maths and statistics for DS, Databases, Data Mining and Visualization, Computational Intelligence, Applied AI, Bioinspired Machine Learning

## PROJECT EXPERIENCE

- Implemented a predictive model to understand the ticket buying behaviour of the British Airways customers by analysing the customer review data using sentiment analysis
- Reviewed the performance of an online retail store and provided insights for improving business on both operations and marketing perspective, evaluating current business performance, and suggesting metrics of focus for further expansion
- Enabled the marketing team to create targeted strategies by segmenting the customers of a mall into different categories using K-Means clustering, thereby boosting customer loyalty
- Created a football player rating system to analyse and predict the performance of the football players to assist the football clubs and academies in scouting the required talent for their team building process
- Implemented CNN models like VGGNet and ResNet in TensorFlow for detecting COVID-19 or pneumonia from the chest X-ray images of patients to facilitate early diagnosis
- Improved the real estate efficiency by predicting the house prices in King County, USA using neural networks
- Created a deep reinforcement learning agent in OpenAI Gym using TensorFlow to evaluate the performance on Atari Space Invaders game.

## CERTIFICATIONS

- Data Science, British Airways
- Data Visualisation: Empowering Business with Effective Insights, Tata
- Machine Learning, Coursera
- Power BI Essential Training, LinkedIn
- Fundamentals of Digital Marketing, Google
- Introduction to Modern Application Development, IIT Madras

## SKILLS & INTERESTS

**Skills:** Machine Learning | Deep Learning | Artificial Intelligence | Natural language processing | Data Visualization | Data Mining | Time series Forecasting | Statistics | Python | TensorFlow | NumPy | Pandas | Sklearn | Matplotlib | Seaborn | SQL | Dialogflow | AWS | Git | Java | MEAN | PuTTY | Postman | Microsoft Office | VLOOKUP | Power BI

**Interests:** Football, Artificial Intelligence, Gaming, Travelling, Photography, CSR activities