Sabarinath Muralidharan Sujatha

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SUMMARY

Experienced Data Scientist with a proven track record in the healthcare industry utilizing 1 year of data science experience and 2 years as a software developer to drive impactful data analysis and informed decision-making. Holds a master's degree in Data Science and AI from the University of Liverpool with distinction, and possesses a solid understanding of AWS, Python, and various machine learning tools.

WORK EXPERIENCE

OMDENA   **Remote**
Machine Learning Engineer   *December 2022 - Present*
    Omdena Serbia Chapter
- Developed a time-series AI predictive system to mitigate flood risks in Belgrade using historical weather and hydrological data.

UST   **Trivandrum, India**
Data Scientist   *April 2020 – August 2021*
    Infinity Labs
- Developed a cutting-edge disease prediction system utilizing AWS tools which accurately forecasts common diseases in the US population, resulting in a 60% reduction in manual workload for healthcare providers.
- Transformed the traditional case creation process by introducing an AWS-powered IVR system, generating over 70% cost savings compared to traditional contact centre solutions.
- Boosted clinician efficiency through the implementation of chatbots utilizing NLU technologies, such as Google Dialogflow. This innovative approach improved the precision and speed of data collection, leading to better health management and patient coverage, yielding a cost savings of over 2 million dollars for the client.

Software Developer   *July 2018 – April 2020*
    Client Subsystem
- Streamlined data management process by successfully completing 96 data loading requests in a single day, resulting in an 80% reduction in workload for the team.
- Leveraged Oracle SQL Developer and SQL queries to efficiently add contract codes and groups to various health insurance policies, meeting client's requirements.

    WMDS, ECC & TriMed
- Conducted thorough analysis on utilization management applications, identified and resolved security vulnerabilities to enhance their performance. Contributed to the improvement of time complexity for case creation by adding additional functionalities.
- Successfully addressed data discrepancies between the Oracle Fusion and Active Directory, leading to a 30% improvement in the efficiency of ticket resolutions.

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 six to conduct a comprehensive literature review on the application of AI in cancer research.
- Key Coursework: Python programming, Maths and statistics for AI & DS, Databases & information system, Data Mining & Visualization, Applied AI, Bioinspired Machine Learning.

PROJECT EXPERIENCE

- Implemented a predictive model using machine learning algorithms such as Sentiment Analysis and utilized tools like Python, Scikit-Learn and TensorFlow to understand the ticket buying behaviour of the British Airways customers.
- Conducted a comprehensive performance review of an online retail store using data analysis techniques and tools like PowerBI, Excel and SQL. Provided insights for improving business operations and marketing strategies, evaluating current performance, and suggesting metrics for expansion.
- Segmented the customers of a mall into different categories using K-Means Clustering and machine learning libraries like scikit-learn, thereby empowering the marketing team to create targeted strategies and boost customer loyalty.
- Created a football player rating system using data analytics and machine learning techniques, such as regression analysis, to analyse and predict player performance, helping football clubs and academies in their team building process.
- Utilized Convolutional Neural Networks (CNNs) like VGGNet and ResNet in TensorFlow to detect COVID-19 or pneumonia from chest X-ray images of patients, facilitating early diagnosis.
- Predicted house prices in King County, USA using neural networks and deep learning tools like TensorFlow and Keras.
- Built a deep reinforcement learning agent using OpenAI Gym and TensorFlow to evaluate performance on the Atari Space Invaders game.

CERTIFICATIONS

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

SKILLS

- **Data science:** Predictive Modelling, Time Series Analysis, Natural Language Processing, Statistical Modelling, Machine Learning, Deep Learning, Neural Networks, Data Mining, Data Visualization.
- **Programming:** Python, SQL, TensorFlow, Keras, Scikit-learn, NumPy, Pandas, Matplotlib, Java, HTML, CSS, JavaScript.
- **Tools:** Jupyter Notebook, Google Colab, Anaconda, Git, PowerBI, AWS, MS Office, Oracle SQL Developer, Docker, Bamboo, Bitbucket, Artifactory, Jira, Postman, PuTTY.
- **Software Development:** Agile Methodology, Object-Oriented Programming, Test-Driven Development, Microservices Architecture.