Srirag Jayakumar

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PROFILE

Software Engineer with 6 years of experience in Data Science and Machine Learning Engineering with capabilities in analysing business processes, determining gaps with desired state of business & suggesting AI solutions. My expertise spans across diverse industries including telecom, finance, healthcare and with multiple government agencies where my collaborative approach and effective communication skills have enabled me to work seamlessly with cross-functional teams, translating complex technical concepts into clear and actionable business strategies.

PROGRAMMING LANGUAGES & SKILLS

Languages: Python, C, C++

Databases: PostgreSQL, Mongo DB

Skills and Competencies: Machine learning, deep learning, image processing, computer vision, Natural Language Processing (NLP), time series analysis, Azure DevOps, Power BI, kafka, Linux, MLflow, Jira, Docker, Jenkins

WORK EXPERIENCE

Lead Data Scientist | Severn Automated Solutions (Bristol)   **Jan 2023 to Present**

- Worked with the British and United States government agencies on developing a machine that verifies the authenticity of documents by capturing images in RGB, IR, Hyperspec and Laser.

- Employed data cleaning and preprocessing techniques to extract relevant information from the captured images.

- Used supervised and unsupervised learning techniques to train deep learning models that are capable of identifying the authenticity of the documents.

- Worked on predictive analysis to predict the future occurrence of a fake document using spacio-temporal time series analysis.

- Dockerized and deployed fine-tuned models to the client's CI/CD cloud pipeline enabling easier code integration, building and testing following strict government-wide compliance rules and regulations.

Machine Learning Engineer | Reliance Industries Limited (Mumbai)   **July 2017 to Aug 2021**

- Setting up meetings with the client on a regular basis and developing an in depth understanding of the project to ensure that the clients' needs are always met in a manner that is consistent with their individual specifications and requirements.

- Utilising a combination of the latest open source and inhouse technologies to verify and pre-process the client's data before feeding to the machine learning model.

- Applying machine learning, deep learning or statistical modelling techniques in developing and evaluating algorithms to improve performance, quality, data management and accuracy.

- Deployment of production ready ML models to Azure DevOps and working closely with other development teams to ensure accurate integration of the models with their system.

- Mentor and guide newly joined employees and teach them the ways of the company and project handling methods.

EDUCATION & QUALIFICATIONS

University of Liverpool - **MSc Data Science and AI (Distinction)**   2021-2022
Courses: Data Mining and Visualization, Computational Intelligence, Bio-Inspired Machine Learning, Reinforcement Learning, Database and Information systems, Applied AI, Maths and Statistics for AI, Programming Fundamentals, Research Methods in Computer Science

National Institute of Technology, Surat – **B.Tech Electronics (Distinction)**   2013-2017

Kendriya Vidyalaya, Thrissur - **High School (Computer Science)**   2012-2013

ACHIEVEMENTS AND ADDITIONAL INFORMATION

- School topper award and cash prize for securing second highest marks (98/100) in computer science in all India higher secondary examination.

- Star performer of the team award for driving multiple key projects and assisting in automation that helped reduce manual work considerably at Reliance.
- Received A+ rating each year for the commitment and dedication to my work in Reliance.

- Accolades for publishing articles related to Machine Learning on Medium.

Languages Spoken – English; Hindi; Malayalam.

INTERESTS

Guitar: Professional guitarist with experience playing at parties and other occasions.

Badminton: Represented inter college badminton team.

Videography: Have a youtube channel dedicated to drone videography.