Jayasree Varadarajan

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About Me

Highly dedicated, enthusiastic, and professional project analyst with more than 4 years of experience in designing, developing, analyzing and implementing business applications. Expertise in analyzing markets based on historical and fundamental data as well as upgrading business models based on the market. I worked as a **Machine Learning Research Assistant** in the Center for Landscape and Climate Research, Space Park Leicester, UK. And as a **Project Analyst** with hands-on experience in **AI/ML Projects** in a reputed organization in India. I possess a professional attitude, and solid analytical, problem-solving, team-working, organizational and time management skills.

Education

2021- 2022	**MSc Satellite Data Science, University of Leicester, UK.**
2012-2014	**M.E. VLSI Design, Anna University, India. (CGPA – 8.19/10)**
2008-2012	**B.E Electronics & Communication Engineering, Periyar Maniammai University, India. (CGPA – 9.31/10)**

Professional Skills

- Programming Languages   **:** Python, R, HTML, CSS & JS.
- Database Software   **:** SQL, PostgreSQL & MongoDB.
- Big Data & Cloud   **:** Hadoop, Pyspark, Airflow, Kafka, GCP, AWS & Azure.
- Other Software   **:** MS Office, GIT, Docker & Kubernetes.
- Visualization Tools   **:** PowerBI, Tableau
- GIS Software   **:** ArcGIS, QGIS, ERDAS & Cloud Compare.

Work Experience

Apr 2022 – Master's Dissertation

- Project on the topic "Forest Disturbance Detection using Satellite Images in the Congo Basin".
- Supervised by Dr Heiko Balzter, Director, Center for Landscape and Climate Research, UK.
- The scope of the project is to identify forest disturbances like deforestation, logging, urbanization, etc. in the study area, Isangi, Tshopo Province, The Democratic Republic of Congo.
- The disturbance is predicted using the tree cover loss and tree cover gain in the study area by implementing Machine Learning Algorithm.
- The project's future development is to develop a Web application (App) for immediate alerts of forest disturbances.

Jan 2022 – Mar 2022 Machine Learning Research Assistant, Space Park Leicester, UK.

- This is a SPRINT project under the Centre for Landscape and Climate research along with Carbon Keepers Limited, UK.
- I worked on LiDAR data manipulation by measuring hedgerows in Lancashire and from the database.
- I worked with Python Jupyter notebooks to manipulate the given data and generate a data model using machine learning.
- Involved in data modelling and validating the quality of data, contributing to the literature review and report writing with Carbon Keepers Limited, UK.
- Also, I worked on aerial LiDAR data and high-resolution imagery and contributed to the final report writing.
- I was involved in fieldwork measuring hedgerow dimensions and weight in Lancashire and involved in lab work for drying and weighting sub-samples.

Nov 2016 – Feb 2021 **Project Analyst, Greensoft Technologies, India.**

- Managing master data, including creation, updates, deletion, and manipulating data.
- Providing technical expertise in data storage structures, data mining, and data cleansing.
- Provide quality assurance of imported data and process confidential data and information according to guidelines.
- Implementing python code and Machine learning algorithms for projects for decision-making.
- Owning independent analytical investigations and translating the outcomes to business stakeholders at all levels within the organization and presenting to key stakeholders.
- High-level experience in methodologies and processes for managing big-scale databases.
- Supporting initiatives for commercial operations for market analysis, group strategy and modelling market impacts.
- Troubleshooting the reporting database environment and reports using PowerBI.
- Ability to work with stakeholders to evaluate potential risks.
- Develop market models, structured and documented and explain them to stakeholders.
- Demonstrated experience in handling large data sets and relational databases.

Key Skills

Planning and Organization

Effective organizational skills with the ability to multi-task and prioritize workload. Tools used include flagging emails to prioritize where necessary, making to-do lists, and managing a calendar.

Communication

Developed through delivering presentations in front of stakeholders and the ability to influence others. Proficient in adapting communication methods to the needs of the client to ensure full understanding and confidence in the services provided.

Teamwork

Excellent team player, able to significantly contribute and work as part of a team to achieve a business objective. Proven in working collaboratively and positively with project partners, and external stakeholders, and working as part of an internal team to ensure that the project was finished on time with target deadlines.

Technical Skills

Computer literate and proficient in using main Microsoft Office applications as well as more specialized in programming including **C, Python, and R for data analysis.**

Certifications

- Advanced Professional Programming and Master Data Engineering Certification from IIT-Madras, India.
- Business Analytics Certification from IIT-Madras & GUVI.
- Python Certification from IIT-Madras, India.
- Internationally Recognized Academic Qualifications Certification from World Education Services.

Awards and Achievements

- Have been awarded for obtaining Academic Topper **Rank II** in **M.E** in March 2014 by Kings College of Engineering, **Anna University**.
- Have been awarded for obtaining University **Rank XII** in **B.E** in April 2012 on the performance in all examinations held during 2008-2012 by **Periyar Maniammai University**.

References

Available on request.