SREERENJINI M DATA SCIENTIST

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🏠 EXPERIENCE

Data Science Intern   Oct 2024-Present   **Luminar Technohub, Kochi**
- Joined as a Data Science Intern, focusing on gaining hands-on experience with real-world data analysis projects by leveraging foundational knowledge and learning new skills.

Data Science Course   Jan 2024-Aug 2024   **Luminar Technolab, Kochi**
- Refined and enhanced data processing workflows using Python, reducing data cleaning time by 30%.
- Utilized Python libraries such as Pandas, NumPy, Matplotlib and Seaborn, enhancing data efficiency by 50%.
- Applied and evaluated supervised and unsupervised algorithms on 10+ datasets.
- Achieved a 25 % improvement in model accuracy and robustness.
- Implemented NLP techniques for sentiment analysis on 1,000+ text samples and improved accuracy rate by 80% using NLTK.
- Developed and executed SQL queries for data retrieval, filtering and CRUD operations in SQL database.
- Used SQL joins and queries for merging datasets.
- Developed deep learning models for object detection in images and videos.
- Utilized Power BI for executing DAX functions, data analysis and data visualization, creating interactive dashboards.

📂 PROJECTS

Credit Risk Analysis
- Executed a Decision Tree algorithm and deployed a front-end application in Strealit app to predict the credit risk for loan approvals based on credit-related information.
- Achieved an accuracy rate of over 89%.

Stellar Classification
- Implemented a Supervised Machine Learning model using Classification algorithms such as K-Nearest Neighbors (KNN), Support Vector Machine (SVM) and Naive Bayes to predict classification scheme of Galaxies, Quasars and Stars based on spectral features.
- Obtained an impressive accuracy score of 91%.

Concrete Crack Image Detection
- Developed a deep learning model for detecting cracks in concrete images using Google Colab.
- Employed Convolutional Neural Networks(CNN) in the dataset.
- Obtained better accuracy in classifying cracked and non-cracked surface images.

To- Do List Application using Python
- Designed an efficient to-do list tool in Pycharm which allows users to efficiently manage their tasks and activities.
- The application features an interactive menu- driven interface which guides users through the different functionalities.

🧠 SKILLS

| **Programming Language:** Python | **IDE:** PyCharm │ Google Colab │ VS Code | **Database:** SQL |

| **Libraries:** Scikit-Learn │ TensorFlow │ NLTK | **Exploratory Data Analysis** | **Machine Learning** |

| **Natural Language Processing** | **Data Visualization and Analytics** | **Power BI** | **Deep learning** |

🎓 EDUCATION

Masters of Science in Physics   2021-2023   CGPA - 4.00/5 │ A
Mahatma Gandhi University, Kottayam

Bachelor of Science in Physics   2018-2021   CGPA - 8.50/10 │ A
Kerala University, Thiruvananthapurm

🌐 LANGUAGES

Malayalam • English • Tamil

📜 CERTIFICATES

CognoRise InfoTech Machine Learning Internship, 2024 • Proficiency Prize in MSC Physics ,2023