Smrithi L

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Education

PSG College Of Technology, Coimbatore — 7.70 CGPA
M.Sc Integrated Data Science — *2022 – 2027*

Sri Vageesha Vidhyashram Senior Secondary School, Tiruchirappalli — 88.00
XII (Higher Secondary, CBSE) — *2020 – 2022*

Sri Akilandeswari Vidyalaya, Tiruchirappalli — 93.00
X (Senior Secondary, CBSE) — *2008 – 2020*

Experience

Data Science Intern — May 2024 – June 2024
Positive Integers — *Chennai, TN*

- Assisted in forecasting the number of offered calls for a company using Random Forest and SARIMA model ..
- Acquired theoretical and practical knowledge on machine learning workflows
- Demonstrated proficiency in Exploratory Data Analytics
- Developed a Flask Web application to interpret and analyze customer's behavior

Technical Skills

Languages: Python, C/C++, SQL, R
Frameworks and Tools: Flask, PowerBI, Excel, Gephi, Git
Libraries: pandas, NumPy, Matplotlib, Scikit-learn, Networkx

Projects

Explainable AI on EEG Dataset | *Python*

- Developed an Explainable AI model to classify ADHD and Control patients using EEG data, incorporating Approximated Entropy to assess the complexity and regularity of behavioral patterns
- Built and fine-tuned machine learning models
- Leveraged SHAP and LIME to enhance model interpretability, providing actionable insights into predictions

Astronomical Data Analysis | *Python*

- This project focuses on classifying celestial objects and predicting galaxy redshifts using SDSS spectral data and astroML library
- The analysis includes handling outliers, class imbalance with SMOTE, and feature extraction through PCA
- Machine learning models like GMMBayes, SVM, Random Forest, Linear Regression were applied

GymEase Software | *Python, Flask, MySQL, HTML, CSS*

- Implemented using Flask and MySQL, this system streamlines the management of various administrative and user operational tasks, including member registration, attendance and performance tracking, along with equipment handling

Social Spotlight Solutions | *Python*

- This project analyzes the Deezer Europe Social Network dataset using social network analysis techniques
- It uncovers hidden patterns through community detection, identifies influential users using metrics like centrality, and predicts future user connections with link prediction methods

Extra Curricular Activities

Management: Actively contributed to the administrative operations of the Radio Hub as a team member
Writing and Communication: Head of the school's Literary Club, participated and conducted various literary activities
Singing: Proficient Carnatic Singer and participated in stage - shows