Sri Harsha Tuttaganti

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Skill Summary

- **Data Management & Analysis:** Proficient in managing, cleaning, and manipulating datasets using Python, R, SQL, and Excel to support analytical workflows and ensure data integrity.
- **Analytical Modeling & Insight Generation:** Skilled in developing and applying analytical models to identify trends, key themes, and actionable insights from complex datasets to support decision-making.
- **Data Visualization & Reporting:** Proficient in creating clear, insightful visualizations and reports using Power BI, Tableau, Excel and Matplotlib to effectively communicate findings to stakeholders.
- **Communication and Collaboration**: Strong problem-solving and communication skills with the ability to work independently and in teams, effectively conveying complex ideas and managing multiple projects.

Experience

Research Assistant – EEG Signal Analysis   **Apr 2025 – Aug 2025**
University of Calgary

- Developed a machine learning project to analyze EEG signals to predict the likelihood of brain stroke.
- Preprocessed raw EEG data and extracted multi-domain features (time, frequency, and time-frequency).
- Trained deep learning models using Evidential Multi-view Learning (EML) for stroke prediction.
- Integrated prediction confidence levels to improve reliability and interpretability.
- Demonstrated the effectiveness of multi-view learning in medical AI, enhancing understanding of EEG stroke patterns.

Projects

- **Ontario Education System Data Analysis**

  Analyzed Ontario education data to identify trends in student performance and resource allocation. Used SQL to query and join multiple tables, ensuring accurate data integration and consistency. Created visualizations and reports to support data-driven policy decisions and stakeholder insights.

- **Life Expectancy Data Analysis**

  Conducted regression analysis in R on WHO datasets to uncover socioeconomic factors influencing life expectancy. Cleaned and transformed multi-year global data, improving modeling accuracy.

- **GridCast: Electricity Data Pipeline & Forecasting System**

  Built an end-to-end electricity data pipeline using AWS (S3, DynamoDB, Lambda, EC2) to ingest and process large-scale U.S. EIA datasets (>1.6M rows). Implemented forecasting with Prophet and developed an interactive Streamlit dashboard for real-time energy insights and decision-making.

- **Intrusion Detection Using Machine Learning Models**

  Collaborated with a team to author a research paper and project on Intrusion Detection using Machine Learning models, enhancing understanding of cybersecurity threats and detection techniques.

Education

Master of Data Science and Analytics   **September 2024 – August 2025**
Faculty of Science | University of Calgary

Bachelor of Technology, Computer Science and Engineering   **August 2019 – July 2023**
Faculty of Science and Technology | Lovely Professional University

Certificates

- SQL for Data Science, Coursera   **July 2025**
- Salesforce CRM, Naresh IT   **March 2024 – May 2024**
- UI Full Stack Web with React JS, Naresh IT   **December 2023 – March 2024**