Venkata Sai Pavan Bommuluri

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WORK EXPERIENCE

- **Accenture (Internship)**   **January 2022 – August 2022**
  Data Engineer, Hyderabad, Telangana
- Collaborated with teams to develop data pipelines and optimized ETL processes using Python and Apache Spark.
- Developed automation scripts for data validation, reducing data processing time by 30%.
- Implemented data transformation logic to support advanced analytics and reporting.
- Utilized cloud-native services in Azure (Data Factory, Data Lake) to optimize data storage and processing costs.

Accenture   **September. 22'– Jan 24'**
Associate Software Engineer   *Hyderabad, Telangana*

Worked as Big Data Engineer on a project related to Stellantis (A Multinational Automotive Corporation)
- Developed scalable ETL pipelines and worked with tools like Apache Spark and Hadoop
- Created data models and storage solutions using Azure to support Stellantis business needs.
- Implemented analytics models to derive insights such as vehicle performance and predictive maintenance using python. SQL and visualization tools like power bi

EDUCATION

- **The University of North Carolina at Charlotte, NC**   **Jan '24 - Present**
  Master's in information technology (Concentration in Emerging Technology)

Major Projects and Research

- **Climate Data Processing and Forecasting with Spark and Machine Learning**
  - Built a scalable Spark pipeline for climate data processing and quality checks, managing large datasets with efficient filtering, imputation, and outlier handling.
  - Developed temperature and extreme weather analysis tools using PySpark, enabling region-specific temperature tracking and detecting heatwaves and cold spells.
  - Engineered predictive models (Linear Regression, Random Forest) for temperature and precipitation forecasting, using cross-validation and feature engineering for accuracy.
- **Classification of Fragile States Index and Action Rule Generation | Weka, LISP-Miller, Python**
  - Classified countries into Fragile States Index categories using socio-economic, political, and environmental data.
  - Pre-processed and engineered features to optimize model performance.
  - Achieved high classification accuracy and generated actionable insights through rule mining.

Technical SKILLS & Certifications

Languages/Frameworks: C, Java, Python, SQL, Mongo DB, HTML/CSS, Java script, Angular, Node.js, React.js, Express.js, SAP ABAP, FICO
Tools: Git, AWS, Azure, Docker, Postman, Jira, D3, Adobe XD.
Data Science: NumPy. Pandas, Power BI, Matplotlib, Seaborn, Apache Spark, Apache Hadoop, Open CV.
OS: Linux, VMware.
Certifications: Azure Fundamentals, AWS Data Engineer