Shravan Sundar Ravi

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Education

University Of Massachusetts Amherst, Master of Science in Data Analytics   Sept 2023 – Dec 2024

- GPA: 3.9/4.0
- **Coursework:** Business Intelligence and Analytics, Applied Linear Statistical Modeling, Quantitative Analysis, Text as Data, Machine Learning, Python for ARC GIS, Data Engineering, Data Visualization.

CMR Institute Of Technology, Bachelor of Engineering in Electronics and Communication   Jun 2017 – Jun 2021

- GPA: 3.2/4.0
- **Coursework:** Python Application Programming (BDA), Data Structures and Algorithm (JAVA), Linear integrated circuits, Digital Electronics, Analog Electronics, Field Theory, Digital Signal Processing.

Experience

Programmer Analyst, KOCH Industries – Bangalore, India   Aug 2021 – Aug 2023

- Played a key role in the Data Dynamics and EDA (Exploratory Data Analysis) team, where I led the development and implementation of data solutions, significantly reducing downtime by 40% and boosting system efficiency by 80%.
- Assisted the Data Dynamics team by developing and automating data pipelines using PowerShell, XGBoost, and Apache Kafka, driving a 40% increase in data processing speed and saving over 15 hours of manual work per week.
- Led the implementation of predictive maintenance solutions using Kafka and TensorFlow, decreasing deployment time by 40% and enhancing system stability by 25%.
- Spearheaded real-time data ingestion and streaming pipelines with Apache Kafka, ensuring seamless integration and real-time insights across multiple departments.

Software Developer Intern, KOCH Industries – Bangalore, India   Jan 2021 – July 2021

- Collaborated with the Data Dynamics team on a large-scale migration project, using Apache Spark, Python, and Azure to move petabytes of data, cutting extraction time by 25% and improving overall data accessibility.
- Enhanced data validation processes within the EDA team by integrating ML-based anomaly detection, improving data accuracy by 30% and ensuring high-quality data outputs.
- Optimized deployment processes in Azure, utilizing Kafka for real-time data ingestion, improving system uptime to 99.9%.

Academic Projects

Hedge Fund Selection Prediction

- Developed a hedge fund selection model with scikit-learn and Random Forest, achieving 85% accuracy.
- Deployed in an Azure environment, reducing model inference time by 30%.
- Delivered insights through Power BI visualizations, enhancing decision-making speed for stakeholders by 40%.

Global Asset Portfolio Optimization

- Built an asset portfolio optimization model using Monte Carlo simulations and Value-at-Risk (VaR) analysis, increasing returns by 12%.
- Automated real-time market data integration, reducing manual data processing by 50%

Skills

Programming Languages: Python, PowerShell, SQL, Apache Spark, R, Go, Flask, Apache Airflow
Web Development & workflow: Flask, Apache Airflow
Data Visualization & BI Tools: Power BI, ArcGIS, Excel (Macros, VBA, Pivot Tables, VLOOKUP, XLOOKUP,Data Analysis ToolPak), Tableau (Calculated Fields, Data Blending, LOD Expressions, Parameter Controls)
Data Analysis & Modeling: Regression Analysis, Financial Risk Assessment, Time Series Forecasting
Data Base Integration & Cloud Computing: AWS, NoSql, FME, Osi PI

Soft Skills

Communication Skills | Analytical thinking | Problem-solving | Detail Oriented | Time management | Organization | Adaptability | Teamwork | Leadership | Decision-making | Interpersonal skills | Active listening | Conflict resolution | Presentation skills | Negotiation | Creative thinking | Strategic thinking | Project management | Customer service | Written Communication | Oral Communication | Critical Thinking | Fast-Paced Learner | Troubleshooting | Marketing | Organized | Research | Solution Focused Mindset