AISHWARYA AJAYKUMAR

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PROFILE

Lead Analyst proficient in leveraging analytics for strategic planning in cross-functional collaboration, data synthesis, optimization, and driving business growth.

- **Languages:** Python (Pandas, NumPy, SciPy, StatsModels), SQL, R
- **Skills:** Exploratory Data Analysis, Data Engineering, Data Mining, Sensitivity & A/B testing, Agile Project Mgmt.
- **Technologies:** MS Office, PySpark, Scikit-learn, Keras, Flask, Selenium, NLP, SAP, Power BI, Tableau, SAS EM
- **Certifications:** Azure Fundamentals, AWS Cloud Practitioner, AWS Solution Architect, Azure Data Scientist*

EDUCATION

Purdue University, Daniels School of Business	**West Lafayette, IN**
Master of Science in Business Analytics and Information Management	**August 2023 - August 2024**
SRM Institute of Science and Technology	**Chennai, India**
Bachelor of Technology, Electrical and Electronics Engineering	**July 2015 - July 2019**

PROFESSIONAL EXPERIENCE

Mu Sigma Inc.   **Bangalore, India**
Project Manager   **March 2022 – July 2023**

- Led a cross functional team of 15 Data Engineers, and UI/UX Developers, adopting Agile methodologies to improve strategic decision-making with sales forecasting in the supply chain.
- Orchestrated CI/CD workflows with Azure DevOps, automating build, test, and deployment phases.
- This initiative facilitated comprehensive execution planning, project timeline definition, and effective change management, ensuring project adaptability and success.

Mu Sigma Inc.   **Bangalore, India**
Lead Decision Scientist   **January 2021 – February 2022**

- Developed a data engineering framework for a forecasting tool, facilitating seamless data transfers through REST APIs in JSON format to four distinct receivers, and conducted integration testing to ensure robust interoperability and data integrity.
- Minimized waste in production process for a pet food manufacturing factory, by recommending optimal raw material inputs to the plant. Employed Monte Carlo simulations to create an input optimization algorithm, which resulted in a savings of 60% or 5000 Euros/week.
- Engineered an advanced data engine solution using Docker containers and Azure IOT devices, facilitating a write-once, run-anywhere approach to standardize data across platforms, which led to a ~15% savings in storage costs and improved data accessibility.

Mu Sigma Inc.   **Bangalore, India**
Decision Scientist   **October 2019 – December 2020**

- Conducted comprehensive exploratory data analysis and stakeholder interviews to identify operational inefficiencies in packaging lines, leveraging a Power BI dashboard to implement and monitor improvements, achieving a 55% reduction in incident rates.
- Created a data integration system with PySpark for large-scale processing, integrated Django APIs for SQL data extraction, and enhanced data accessibility for a React app, driving improved user interaction and engagement.

Canadian Imperial Bank of Commerce USA   **West Lafayette, IN**
Risk Analytics Intern   **January 2024-Present**

- Automated the data refresh process for a key fraud detection dashboard using Python scripts and Azure data Factory, reducing monthly manual data manipulation by ~10 hours.

ACADEMIC PROJECTS

- **End to end analytics solution for Walmart (Python)**: Devised strategic solutions incorporating LSTM for Sales forecasting, LightGBM for Promotion Analysis, K-means for Product Segmentation, and Image recognition to enrich the shopping experience.
- **Predictive model to determine listing prices and revenue (Python)**: For Airbnb with XGBoost, refined with PCA and hyperparameter tuning, optimized listing profitability.
- **Loan default forecasting (Python, SAS EM)**: Combined Logistic Regression and LightGBM models for improving risk assessment for financial institutions.