SURIYA PRASATH PARAMESWARAN

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Professional Summary

Impact focused Data Scientist, building decision driven machine learning systems with real- work business and risk applications. Experienced in predictive modeling, NLP, time series forecasting and end to end data pipelines from raw dat5a to deployable insights. Strong focus on optimization, prioritization and translating complex data into actionalable decisions.

Education

University of Leeds, Leeds, UK, *MSc in Data Science and Analytics*   Sept 2024 – Sept 2025

Graduate-level research in machine learning, NLP, and risk modeling, Relevant coursework: Machine Learning, statistical Learning, Natural language Processing.

Professional Experience

Cognizant Technology Solutions – *ETL & Data Engineering Intern*   Jul 2022 – dec 2022

- Built and maintained production ETL pipelines using Informatica to process structured enterprise data
- Implemented data mapping, transformation logic and workflow orchestration to support downstream analytics.
- Collaborated with senior data engineers to monitor pipeline reliability and resolve data quality issues.

Shree Kay Vee Automation – *Iot & Analytics Intern*   Jan 2023 - Apl 2023

- Developed a predictive maintenance model using IoT sensor data to detect early equipment failure patterns.
- Designed and deployed real-time KPI dashboards for operational monitoring on Linux-based systems
- Automated data ingestion and processing workflows using AWS Lambda and SQL to support analytics pipelines.

Projects

CyberSec Severity Intelligence Engine   Feb 2025 – Aug 2025

- Built an end-to-end NLP system to predict CVE severity levels (LOW → CRITICAL) directly from raw NVD vulnerability descriptions.

- Extracted latent vulnerability themes using LDA topic modeling and transformed topic distributions into features for classification.

- Trained and evaluated baseline and ensemble models to support automated vulnerability prioritization and risk triage.

Skills

Programming – Python, SQL, R, HTML, Java, C++
Machine Learning & Data Science – Predictive Modeling, NLP, Topic Modeling(LDA), Time series Forecastin, A/B Testing
Deep Learning & AI – TensorFlow, PyTorch
Database & Cloud – MySQL, BigQuery, AWS, AWS Lambda, AWS Athena
Analytics & Visuvalization – PowerBI, Tableau, Matplotlib, Plotly, Seaborn
DevOps & Data Engineering – ETL, Linux, Git, Docker, Informatica
Web Development & API – React, Node.js, FastAPI, RestAPI, TypleScript