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Chamodh Chiranthana

Intern Data Scientist

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As a motivated Data Science enthusiast pursuing a degree in Computer Science at the University of Westminster, I am passionate about uncovering insights through data and transforming them into actionable outcomes. My academic background has equipped me with strong skills in Python, data analytics, and machine learning, supported by a solid foundation in problem-solving and critical thinking. I am eager to apply these abilities in a practical setting, contribute to meaningful projects, and further develop my expertise through hands-on industry experience.

Skills

Tools and Languages	Python, SQL, Git, Tableau
Data Engineering	ETL Pipelines, Data Wrangling, Automation, pandas
Machine Learning	Predictive Modeling, Feature Engineering, scikit-learn
Data Analysis	EDA, Data Visualization, Statistical Analysis
Communication	English (fluent)

Technical Experience

Data Science Intern **Jun 2025 – Present**
Management Systems (Pvt) Ltd. (Payroll Management) *Colombo, Sri Lanka*

- Applied exploratory data analysis and machine learning techniques to payroll and HR datasets to uncover performance trends and predict potential attrition risks.
- Engineered automated ETL and feature extraction workflows in Python for salary and overtime analytics, improving data processing efficiency by 60%.
- Collaborated with HR stakeholders to translate model insights into actionable business decisions on employee performance and retention.

Rice Price Collector **Oct 2025**
Personal Project

- Developed an open-source Python package, `rice_price_collector`, to automate downloading, parsing, and processing of CBSL rice price reports.
- Built asynchronous ETL pipelines using `aiohttp`, `BeautifulSoup`, `pdfplumber`, and `pandas` for high-throughput data ingestion.
- Packaged and deployed the project with continuous integration via GitHub Actions; released on PyPI.

Employee Churn Prediction – HR Analytics **Aug 2025**
Personal Project

- Built and evaluated multiple ML models (Logistic Regression, Random Forest, XGBoost) to predict employee churn, achieving strong ROC AUC with XGBoost.
- Engineered features from 15K+ employee records—covering performance scores, tenure, and compensation—to quantify attrition risk.
- Performed feature importance analysis to interpret model outputs, identifying key churn drivers.
- Delivered actionable insights enabling HR teams to design data-driven retention strategies and reduce projected turnover.

FARS Accident Severity Prediction **Ongoing**
Personal Project

- Designed a modular ETL and machine learning pipeline to predict accident severity from multi-year U.S. FARS datasets.
- Developed Python modules for automated data extraction, transformation, and severity scoring across accident and vehicle records (2009–2023).
- Implemented model training, validation, and pipeline testing with `pytest` for full reproducibility and CI/CD integration.
- Structured the project with production-ready documentation and versioned datasets for scalable deployment.

Education

University of Westminster, London, UK Expected 2027
Bachelor of Computer Science, Major in Computer Science; Minor in Mathematics
Relevant Coursework: Machine Learning & Data Mining, Database Systems, Object-Oriented Programming
Informatics Institute of Technology, Colombo, Sri Lanka Jul 2016 – Jul 2017
Foundation Certificate of Higher Education: Mathematics for Computer Science, Python Programming, Computer Systems

Activities

- Author, Data Science Blogs on Medium 2025 – Present
- Participant, Kaggle Competitions Online Coding Sprints 2025 – Present 2024 – Present