

Aspiring AI/ML Engineer with practical experience in data preprocessing, model development, and predictive analytics. Strong foundation in Python, machine learning, and data-driven problem solving, with a keen interest in automation and cloud technologies. Passionate about building scalable, interpretable, and ethical AI systems that deliver real-world impact.

### SKILLS

<b>Programming &amp; Tools</b>	Python, Java, SQL, Git, scikit-learn, pandas, NumPy, Power-BI, LangChain, HuggingFace, OpenAI
<b>Machine Learning &amp; AI</b>	Supervised & Unsupervised Learning, Model Training & Evaluation, Feature Engineering, Predictive Modeling, Hyperparameter Tuning
<b>Data Engineering</b>	ETL Pipelines, Data Preprocessing, Automation, Data Wrangling, REST APIs
<b>Data Analysis</b>	Exploratory Data Analysis (EDA), Statistical Analysis, Visualization Dashboards
<b>Soft Skills</b>	Problem Solving, Team Collaboration, Clear Technical Communication, Documentation

### TECHNICAL EXPERIENCE

<b>Data Science Intern</b>	Jun 2025 – Present
<i>Management Systems (Pvt) Ltd. — Payroll Management Division</i>	Colombo, Sri Lanka
<ul style="list-style-type: none"><li>Building an automated reporting system for company-wide provident fund (PPF) performance, generating fund reports from payroll and fund transaction databases.</li><li>Analyzing Oracle/SQL PPF datasets to define report-ready KPIs (contributions, withdrawals, returns, loan exposure, coverage ratios) and creating reusable queries/views to compute them consistently.</li><li>Developing a FastAPI backend to orchestrate data extraction, metric aggregation, AI-assisted narrative generation, and LaTeX compilation into PDF reports that explain fund health and trends.</li><li>Adding forecasting components to the reporting pipeline to project upcoming KPIs (e.g., contributions/withdrawals/OT-related indicators) and include forward-looking insights alongside historical performance.</li><li>Working with finance, HR, and IT stakeholders to validate KPI logic, report layout, and explanations, replacing manual reporting with a reproducible, data-driven workflow.</li></ul>	
<b>World History Search Pipeline – Semantic RAG System</b>	2024 – Present
<i>Personal Project</i>	
<ul style="list-style-type: none"><li>Designed an end-to-end semantic search pipeline that transforms world history textbooks into a vectorised knowledge base for question answering and AI-powered tutoring.</li><li>Implemented modular PDF extraction, text cleaning, and semantic chunking workflows in Python using pymupdf, nltk, and sentence-transformers (all-MiniLM-L6-v2).</li><li>Built a ChromaDB-backed vector store with chapter/page metadata to enable fast similarity search and grounded retrieval with citations.</li><li>Prototyped retrieval-augmented generation (RAG) flows with the Gemini API, exposing the system through notebooks and a backend/frontend scaffold for future web deployment.</li></ul>	
<b>Employee Churn Prediction – HR Analytics</b>	Aug 2025
<i>Personal Project</i>	
<ul style="list-style-type: none"><li>Built and compared multiple ML models (Logistic Regression, Random Forest, XGBoost) to predict employee churn, achieving strong ROC-AUC performance with XGBoost.</li><li>Engineered features from 15K+ employee records—spanning tenure, performance, and compensation—to quantify attrition risk.</li><li>Interpreted model outputs via feature importance analysis, identifying primary churn drivers and HR intervention points.</li><li>Delivered actionable retention insights through concise reporting and data visualizations.</li></ul>	

### EDUCATION

<b>University of Westminster</b> , 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	
<b>Informatics Institute of Technology</b> , Colombo, Sri Lanka	2021 – 2022

Foundation Certificate of Higher Education: Mathematics for Computer Science, Python Programming, Computer Systems

### CERTIFICATIONS

<b>IBM Data Science Professional Certificate</b>	Coursera — IBM Skills Network	2025
<b>Google Advanced Data Analytics Certificate</b>	Coursera — Google Career Certificates	2025

### ACTIVITIES

<ul style="list-style-type: none"><li>Author, Data Science Blogs on Medium</li><li>Participant, Kaggle Competitions</li></ul>	2025 – Present	2025 – Present
		2024 – Present