

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

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

TECHNICAL EXPERIENCE

<b>Data Science Intern</b> <i>Management Systems (Pvt) Ltd. — Payroll Management Division</i>	<b>Jun 2025 – Present</b> <i>Colombo, Sri Lanka</i>
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- Designing an automated reporting system for company-wide provident fund (PPF) performance, generating LaTeX-based fund reports from payroll and fund transaction databases.
- Analyzing SQL/Oracle databases of PPF records to determine which KPIs (contributions, withdrawals, returns, loan exposure, coverage ratios) should appear in reports and writing reusable queries/views to compute them reliably.
- Implementing a FastAPI backend to orchestrate data extraction, metric aggregation, Gemini API-driven narrative generation, and LaTeX compilation into PDF reports that explain overall fund health (e.g., “is the fund improving or deteriorating?”).
- Collaborating with finance, HR, and IT stakeholders to validate metrics, report layouts, and explanatory narratives, replacing ad-hoc manual reporting with a reproducible, data-driven workflow.

<b>World History Search Pipeline – Semantic RAG System</b> <i>Personal Project</i>	<b>2024 – Present</b>
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- 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.
- Implemented modular PDF extraction, text cleaning, and semantic chunking workflows in Python using pymupdf, nltk, and sentence-transformers (all-MiniLM-L6-v2).
- Built a ChromaDB-backed vector store with chapter/page metadata to enable fast similarity search and grounded retrieval with citations.
- Prototyped retrieval-augmented generation (RAG) flows with the Gemini API, exposing the system through notebooks and a backend/frontend scaffold for future web deployment.

<b>Employee Churn Prediction – HR Analytics</b> <i>Personal Project</i>	<b>Aug 2025</b>
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- Built and compared multiple ML models (Logistic Regression, Random Forest, XGBoost) to predict employee churn, achieving strong ROC-AUC performance with XGBoost.
- Engineered features from 15K+ employee records—spanning tenure, performance, and compensation—to quantify attrition risk.
- Interpreted model outputs via feature importance analysis, identifying primary churn drivers and HR intervention points.
- Delivered actionable retention insights through concise reporting and data visualizations.

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

IBM Data Science Professional Certificate	Coursera — IBM Skills Network	2025
Google Advanced Data Analytics Certificate	Coursera — Google Career Certificates	2025

ACTIVITIES

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