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Chamodh Chiranthana

Intern AI/ML Engineer

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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

Data Science Intern <i>Management Systems (Pvt) Ltd. – Payroll Management Division</i>	Jun 2025 – Present Colombo, Sri Lanka
<ul style="list-style-type: none">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.	
World History Search Pipeline – Semantic RAG System <i>Personal Project</i>	2024 – Present
<ul style="list-style-type: none">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.	
Employee Churn Prediction – HR Analytics <i>Personal Project</i>	Aug 2025
<ul style="list-style-type: none">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

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	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

<ul style="list-style-type: none">Author, Data Science Blogs on MediumParticipant, Kaggle Competitions Online Coding Sprints	2025 – Present	2025 – Present
		2024 – Present