

PHILIP SIMON DEROCK

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AI (Artificial Intelligence), ML (Machine Learning), and Gen AI developer skilled in building scalable AI solutions, LLM fine-tuning and AI agent workflows using n8n. Experienced with LangChain, Ollama, Hugging Face, vector DBs, and RAG for production-ready AI systems.

EDUCATION

KARUNYA UNIVERSITY

B. TECH IN ARTIFICIAL INTELLIGENCE
AND DATA SCIENCE

May 2025 | Coimbatore, TamilNadu

ST. ANTONY'S HR.SEC.

HIGHER SECONDARY SCHOOL

May 2021 | Nagapattinam, TamilNadu


DON BOSCO MAT.HR.SEC.

SECONDARY SCHOOL

May 2019 | Thanjavur, TamilNadu

LINKS

LinkedIn 

GitHub 

Hugging Face 

Replit 

Mail 

SKILLS

- Python • Scikit-learn • NumPy • Pandas
- Transformers • NLTK • Hugging Face
- n8n • RAG • Ollama (Local LLM Hosting)
- LangChain • ChromaDB • Pinecone
- Java • Spring Boot (Basics) • JDBC • SQL
- Excel • Power BI • Git & GitHub
- Linux • Object-Oriented Programming
- GCP • System Design (Basics)

LLM TOOLS

- Google AI Studio (Gemini) • OpenAI • Claude
- Mistral • Groq • OpenRouter
- Prompt Engineering • System Prompt Design
- Multi-Agent Workflows
- Local Hosting & Optimization
- LLM API Integration

LANGUAGES

English (Proficient)

Tamil (Native)

EXPERIENCE

CISCO | CYBERSECURITY INTERNSHIP

May 2023 - Aug 2023

- Completed training in Cybersecurity Essentials and Network Security Fundamentals.
- Gained hands-on experience in securing networks and identifying vulnerabilities.

EDUNET & AICTE | ARTIFICIAL INTELLIGENCE AND DATA ANALYTICS WITH A FOCUS ON GREEN SKILLS INTERNSHIP

Nov 2024 - Dec 2024

- worked on a project titled Healthcare Prediction on Diabetic Patients using Python.
- Applied AI-driven feature engineering and statistical modeling to optimize predictive healthcare diagnostics.

CODINGJR | AI RESEARCH INTERN

Apr 2025 - Present

- Building an AI copilot that assists developers in writing cleaner, faster code.

IISPPR | AI AGENT INTERNSHIP

Jun 2025 - Present

- Developing cutting-edge AI agent architectures that enable real-time collaboration

PROJECTS

ADVANCED GENERATIVE AI SERVER FOR EFFICIENT AI DEPLOYMENT | Ubuntu Server, Python, Ollama AI, Langchain, DeepSeek, Llama3, RAG

- Fine-tuned **DeepSeek** & **Llama3 Ollama AI** models for enhanced **contextual** understanding using **LangChain**, integrating **RAG** architecture, **vector-based similarity search** & **conversational memory** systems.
- Built self-hosted Generative AI server on Ubuntu Server (running on an old laptop) Streamlit, DB-backed **chat history**, **Google Cloud** deployment, **local domain (myai.dev:8501)** leveraging **deep research** & **web search** for enhanced AI inference.

EMAIL CLASSIFICATION API USING MACHINE LEARNING | Python, Scikit-learn, FastAPI, TF-IDF, Naive Bayes, Regex, Hugging Face

- Built a **real-time email classification** system using **TF-IDF**, **Naive Bayes**, and regex-driven PII masking for accurate **support ticket categorization**.
- Deployed a **FastAPI**-based **REST** service on **Hugging Face Spaces**, automating end-to-end support **email processing** with scalable **ML** workflows in Python

SHIPPING CONTAINER SLOT OPTIMIZER | Java, Spring Boot, Maven, REST API, GC

- Developed a high-performance **container placement API** using **Java 23**, **Spring Boot** & **G1 Garbage Collector**, **low-latency** & **scalable** enterprise deployment with advanced **scoring algorithms** for optimized **slot allocation** in high-throughput environments.

CERTIFICATIONS & COURSES

From data to insights with Google Cloud Specialization (Google, Coursera)

Data Science Training (Internshala)

OOPs in Java Programming (simplilearn skillup)

Data Visualization: Empowering Business with Effective Insights (Tata)

CyberSecurity Essentials (Cisco)

Data Visualization & Pandas (Kaggle)