# PHILIP SIMON DEROCK

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AI (Artificial Intelligence), ML (Machine Learning), and Generative AI Developer skilled in scalable AI solutions, LLM fine-tuning, Leveraging LangChain, Ollama AI, Hugging Face **&** RAG architectures for model deployment on local systems **&** cloud.

## 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

- **Java • Python • Spring Boot(Basics)**
- **JDBC • Scikit-learn • NumPy • Pandas**
- **Matplotlib • Ollama AI • Langchain**
- **Transformers • NLTK • Hugging Face**
- **RAG • Excel • PowerBI • Git & GitHub**
- **Linux • Object-Oriented Programming**
- **GCP • SQL • System Design (Basics)**

## 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
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
Present

## 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, Garbage Collector, JSON*
- 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)