

# HARI SUDARSAN

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## PROFESSIONAL SUMMARY

Applied AI/ML Engineer with an MSc in Robotics and Artificial Intelligence from the University of Glasgow, experienced in building NLP and deep learning systems using transformer-based models. Skilled in Python, PyTorch, and LLM-powered applications, with hands-on experience developing end-to-end machine learning pipelines.

## EDUCATION

**University of Glasgow (Glasgow, UK)**

September 2022 - September 2023

MSc Robotics and Artificial intelligence

Grade: Merit

**College of Engineering, Trivandrum (Kerala, India)**

August 2018 - July 2022

Bachelor of Technology in Applied Electronics and Instrumentation Engineering

Grade: CGPA 8.65/10.0

## WORK EXPERIENCE

**Independent AI Researcher/Engineer (Remote)**

Dec 2023 - Present

- Conducted independent development and experimentation in applied machine learning and NLP, building AI prototypes and model training pipelines using Python, Pytorch, Hugging face
- Designed and Implemented machine learning workflows including data collection, preprocessing, model training, evaluation and experimentation on structured and unstructured datasets.
- Explored production oriented AI practices such as containerization with Docker, experiment tracking using MLflow, and scalable model deployment architectures.
- Delivered freelance web development projects for researchers and professionals, building custom websites and lightweight tools to support domain specific workflows

**Graduate Teaching Assistant/Marker - University of Glasgow**

January 2023 - June 2023

- Served as a responsible second marker in the Department of Engineering. Evaluated coursework for 100+ students in the Engineering department and demonstrated efficiency by working quickly and efficiently under academic deadlines.

## PROJECTS

**Network Security System – Phishing Website Detection**

2026

Python, Scikit-learn, MLflow, Docker, AWS

- Designed an end-to-end MLOps pipeline for phishing website classification using a 11K+ record security dataset.
- Implemented automated ETL workflows for data ingestion, schema validation, and preprocessing.
- Integrated MLflow for experiment tracking and model lifecycle management to enable reproducible training.
- Containerized training and inference workflows using Docker to simulate production-style model deployment.

**Financial Sentiment Analysis Engine**

2025

Python, PyTorch, Hugging Face, BERT, RoBERTa, API

- Developed a transformer-based NLP pipeline for financial sentiment classification, including data preprocessing, model training, evaluation and experiment tracking.
- Trained and evaluated BERT and RoBERTa models, achieving 9% improvement over baseline models.

**AI-Powered Stock Assistant**

2024

Python, Flask, Llama-3, Groq API, Docker, YFinance

- Built an LLM-powered financial assistant capable of answering stock-related queries using real-time market data.
- Integrated Llama-3 with tool-based workflows to retrieve stock prices, company fundamentals, and news via financial APIs.
- Developed a Flask-based web interface and containerized deployment using Docker for interactive financial analysis.

## TECHNICAL SKILLS

**Programming:**

Python, Java, SQL, MATLAB, Dart

**Tools & Frameworks:**

Flask, FastAPI, LangChain, Docker, Git, AWS, Streamlit, Render

**ML & Data:**

PyTorch, TensorFlow, Hugging Face, Pandas, Matplotlib, Seaborn, PowerBI