

Ahamed Musharaf

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ABOUT ME

Forward-deployed AI Software Engineer pursuing an MSc in Data Science & AI, working directly with clients and their end-customers to ship agentic AI products end-to-end. Hands-on expertise spanning the full stack — from production LLM platforms built on Claude and multi-agent systems to computer vision, machine learning, and deep learning. Experienced turning manual, document-heavy workflows into automated pipelines with OCR, LLMs, and typed APIs, and owning the last mile from prototype to deployed product. Skilled at collaborating with cross-functional teams to deliver reliable solutions in fast-paced, tech-driven environments.

FORWARD-DEPLOYED AI ENGINEER | MACHINE LEARNING | COMPUTER VISION

EXPERIENCE

Sansa Technologies, Inc.

December 2025 – Present

AI Software Engineer

New York, USA · Hybrid (Colombo, SL)

- Built an **AI powered specialty insurance placement platform**, working directly with brokers, underwriters, and carriers to automate the full submission to bind workflow and replace a manual, document heavy placement process.
- Developed a **Claude based document extraction & intake engine** that auto populates ~70% of submission fields from uploaded documents and third-party property/hazard sources (OCR, HazardHub), cutting submission intake from ~45 minutes to under 5 and eliminating manual re-keying.
- Engineered an automated **form generation & e-signature pipeline** (Anvil) that produces 6+ ACORD (125/126/140) and carrier-specific supplemental forms (e.g., GC/HVHO/MHP) in seconds instead of hours, plus **carrier appetite matching** that auto routes each submission to eligible markets.

SIMPLEBOOKS (PVT) LTD.

April 2025 - March 2026

Software Engineer (AI & Fullstack)

Colombo, Sri Lanka

- Developed an AI powered **multi-agent system** for the tax tool that acted as an intelligent tax consultant.
- Developed a **tax tool** that automatically extracted and processed data from payslips and T-10 forms, eliminating manual data entry.
- Built a multilingual **NIC OCR system** to extract Sinhala/Tamil text from Sri Lankan NICs, enabling automatic population of director details in a business registration platform via a custom API and frontend integration.

ABSOL X

February 2025 - March 2025

Machine Learning Engineer

Kandy, Sri Lanka

- Designed and developed a full fledged **AI powered sales agent** for the client's car dealership, integrating automated customer onboarding, price negotiation, test drive appointment, and order placement.
- Developed a robust **ERP system** for the client company to streamline business operations, manage customer interactions, improving efficiency and data management.
- Leveraged AI and machine learning techniques to improve agent efficiency and automate sales workflows.

CODSOFT

August 2023 – September 2023

Artificial Intelligence Intern (Remote)

India

- Designed a **rule-based conversational agent** to enhance automated customer interactions, reducing response time by 25%.
- Created an **image captioning system** integrating **computer vision and NLP** for accessibility-focused automation.

FIVERR

December 2020 – August 2023

MATLAB/PYTHON Freelancing

- Enhanced surveillance capabilities by implementing **YOLO based real time object detection** systems.
- Developed **custom image classification and segmentation algorithms** for automation.
- Designed a **convolutional encoder for WiMAX**, ensuring robust and reliable data transmission.

PROJECTS

AI Driven Image to Image Translation System

January 2025

- Developed an advanced cGAN based image to image translation model using pix2pix, enabling tasks like photo editing, style transfer, and colorization.
- Delivered a 10% increase in the realism of generated images for e-commerce and digital content platforms.

Computer Vision based Dimension Measuring Machine

April 2024

- Engineered a hybrid system integrating stereo and monocular vision for accurate 3D point cloud generation.
- Improved measurement precision by 20%, enabling applications in manufacturing and quality control.

End to End Real Time Object Detection System

February 2023

- Built a YOLO based real time object detection pipeline for surveillance and autonomous navigation systems.
- Optimized model inference speed, achieving a 20 FPS detection rate.

Real time Depth Estimation using Deep Learning

December 2023

- Developed a real time monocular depth estimation that integrated seamlessly with existing systems, resulting in a 25% reduction in computational overhead and allowing for deployment in resource constrained environments.
- Enabled seamless integration into robotics systems for enhanced spatial awareness.

EDUCATION

University of Moratuwa (UoM)

Master of Science in Data Science & AI

January 2026 – Present

Moratuwa, Sri Lanka

National University of Sciences & Technology (NUST)

Bachelor of Science in Electrical Engineering

- Full Merit Scholarship: Allama Iqbal HEC Scholarship

October 2020 - June 2024

Islamabad, Pakistan

Royal College, Colombo 07

Junior – High School Education

January 2006 - August 2019

Colombo, Sri Lanka

PROFESSIONAL CERTIFICATIONS

1. Introduction to Generative AI – Duke University (Coursera)
2. MATLAB Certification – MathWorks
3. Globally Responsible Engineering Programme - Engineers Without Borders UK

SKILLS

- **Programming Languages:** Python, TypeScript, JavaScript, MATLAB
- **Generative & Agentic AI:** Claude (Opus / Sonnet / Haiku), Multi-Agent Systems & Orchestration, Agent Skills, Tool Use / Function Calling, Context Engineering, Prompt Engineering, LangChain, LangGraph
- **LLM Engineering:** LLM Application Development, Model Context Protocol (MCP), Retrieval Augmented Generation (RAG), LLM Evals, Structured Outputs, Prompt Caching, Fine Tuning
- **Full-Stack Development:** React, Node.js, Express, FastAPI, Flask, REST & oRPC API Design, Turborepo (Monorepo)
- **Databases & ORM:** PostgreSQL, MySQL, Drizzle ORM, Neon, Supabase
- **Document AI & OCR:** Document Extraction, Multilingual OCR, Third-Party API Integration
- **Computer Vision:** Image Classification, Object Detection (YOLO), Facial Recognition, Depth Estimation
- **Deep Learning & ML:** PyTorch, TensorFlow, Keras, Hugging Face, Supervised/Unsupervised Learning, Neural Networks (Convolutional, Recurrent, Transformers)
- **Tools & Libraries:** Git, Cursor, Figma, VS Code, OpenCV, Pandas, NumPy, Scikit Learn, Matplotlib
- **Soft Skills:** Problem Solving, Communication, Self Motivation, Team Collaboration

HONOURS & AWARDS

Allama Iqbal HEC full scholarship

September 2020

Awarded a full scholarship based on top merit for undergraduate studies at National University of Sciences and Technology, Pakistan.