

Ahmed Dawood

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Education

Bachelor of Science in Artificial Intelligence Science, CGPA: 3.4/4.0 *Sep 2021 – Jun 2025*
Alamein International University (AIU), Faculty of Computer Science and Engineering

Relevant Coursework: Machine Learning, Neural Networks, Natural Language Processing, Object-Oriented Programming, Computer Networking, Image Processing, Operating Systems, Probability & Statistics, Discrete Mathematics, Linear Algebra

Experience

Natural Language Processing Intern *Jun 2024 – Sep 2024*
Bibliotheca Alexandria, Alexandria, Egypt

- Worked on a News Analysis Project, classifying news articles by sentiment (positive, negative, or neutral) across different years.
- Preprocessed and organized large datasets of news articles, ensuring data quality for analysis.
- Implemented machine learning models, including BERT, to classify sentiment, achieving high accuracy in sentiment analysis.
- Conducted trend analysis to identify yearly patterns in news sentiment, providing actionable insights for stakeholders.

Machine Learning Intern *Sep 2024 – Nov 2024*
National Telecommunication Institute (NTI), Alexandria, Egypt

- Developed a real-time face recognition system during the NTI Digital Egypt Youth Program (90 hours, scored 95%) using Python, OpenCV, NumPy, SQLite3, Tkinter, and face_recognition library.
- Designed features for user management, face tracking, and recognition history logging, supporting up to 20 concurrent face detections with 90% accuracy.
- Collaborated with a team to integrate a modern UI with performance monitoring, reducing processing latency by 15% through optimized frame handling.

Java Intern *Feb 2023 – May 2023*
Information Technology Institute (ITI), Alexandria, Egypt

- Developed a chat application using Java, leveraging OOP, multi-threading, JavaFX, JDBC, and networking fundamentals, supporting real-time communication for up to 100 users.
- Designed GUIs for user sign-up, login, chat functionalities, and server management, reducing login errors by 15%.
- Collaborated in a three-member team to implement 9 classes for client-server interaction, completing the project 10% ahead of schedule.

Projects

- **Story Telling From Surveillance Videos (Graduation Project)** *May 2025*
Extracted keyframes using optical flow and applied Vision Language Models (e.g., Video MAE) to detect anomalies, tracked objects using YOLOv5 and SORT, and utilized Gemini APIs for storytelling.
- **AI-Powered Technical Support Chatbot** *Apr 2025*
Developed an NLP-driven chatbot for You Learnt Company using Llama 3 and FAISS to automate FAQs, reducing response time by 80%. Built with Flask, Groq API, and multilingual support (English/Arabic).
- **AI-Powered Startup Strategy Assistant** *Mar 2025*
Designed a GPT-4-powered platform (FastAPI/React) for Gamify Company to auto-generate business plans, workflows, and KPIs, saving 3,000+ hours for 500+ founders. Enabled export to Notion/PDF with interactive editing.

- **Microservices Platform** *Dec 2024*
Built modular services using FastAPI, Flask, and Django for translation, summarization, and user management, integrated with PostgreSQL and Docker.
- **Face Recognition System** *Nov 2024*
Implemented features for user management, face tracking, and recognition history logging, supporting up to 20 concurrent face detections with 90% accuracy using Python, OpenCV, NumPy, SQLite3, Tkinter, and face_recognition library.
- **Chat Room App** *Jun 2024*
Built a real-time multi-user chat system with client-server architecture using Java Socket Programming.
- **Fake News Detection** *May 2023*
Implemented machine learning algorithms to detect fake news, improving accuracy by 85%.
- **School Management System** *May 2022*
Designed a Java-based OOP system for managing school operations, reducing administrative workload by 30%.

Certifications

- AI Course (ML, DL), AI Coding Academy (104 Hours) *May 2024*
- Natural Language Processing in TensorFlow, Coursera (4 weeks) *Apr 2024*
- Deep Neural Networks with PyTorch, Coursera (7 weeks) *Dec 2023*
- Databases and SQL for Data Science with Python, Coursera (20 Hours) *May 2023*
- Machine Learning for All, Coursera (21 Hours) *May 2023*
- Inferential Statistics, Coursera (16 Hours) *Dec 2023*

Skills

- **Programming Languages:** Java, Python, SQL
- **Technical Skills:** Machine Learning, Deep Learning, Natural Language Processing, Image Processing, Computer Networking, Operating Systems, Git (Version Control), Docker, PostgreSQL, FastAPI, Flask, Django, React
- **Tools:** Microsoft Office, TensorFlow, PyTorch, Llama 3, FAISS, BERT, YOLOv5, SORT, Gemini APIs, Groq API
- **Soft Skills:** Team Collaboration, Problem-Solving, Time Management, Adaptability, Communication
- **Languages:** Arabic (Native), English (Fluent)