

Abdelrahman Nasser

Email: A.Nasser2230@nu.edu.eg | Phone: 01030273180 |

LinkedIn: <https://shorturl.at/IqbUj> |

GitHub: <https://github.com/Abdelrahmannasser139> | Location: Cairo, Egypt

Summary

Passionate AI and Machine Learning Engineer and senior Artificial Intelligence student at Nile University, with expertise in LLMs, NLP, IoT, Cloud Computing, and Data Analysis. Experienced in fine-tuning large language models, real-time monitoring systems, and cloud integration. Strong leadership and teamwork skills with a background in AIESEC, hackathons, and technical competitions. Seeking opportunities to leverage my technical and analytical skills in AI-driven applications.

Education

Bachelor's Degree in Artificial Intelligence

Nile University | Expected Graduation: 2025

Relevant Courses: Machine Learning, Deep Learning, NLP, Reinforcement Learning, Big Data, Cloud Computing, Parallel Computing, IoT, Data Mining, Computer Vision, Optimization Techniques, Data Structures, Algorithms.

Technical Skills

Programming Languages: Python, C++, JavaScript, SQL

AI & Machine Learning: LLMs (LLAMA 1B, 3B, 8B), NLP, Deep Learning, Data Analysis, Reinforcement Learning

Cloud & Big Data: Google Cloud Platform (GCP), Hadoop, BigQuery

IoT & Embedded Systems: Raspberry Pi, Arduino, ESP32, Sensor Integration

Mobile Development: Flutter, Dart, RESTful APIs

Data Visualization: Power BI, Tableau

Web Development: Node.js, HTML/CSS, JavaScript

Parallel & Distributed Computing: CUDA, MPI, Multithreading

Work Experience

Junior Teaching Assistant – Data Analysis

Nile University | [2/24 – 6/24] | Cairo, Egypt

- Assisted students in understanding data analysis techniques and tools.
- Provided guidance on Python, machine learning models, and data visualization.

Google Cloud Platform Intern

Xperience1st | [6/24 – 7/24] | Cairo, Egypt

- Worked on GCP-related projects, focusing on cloud computing and big data.
- Developed cost optimization dashboards and analyzed cloud resource usage.

IoT Intern – SmartCity_WebApp

Samsung (SIC 2024) | [7/24 – 9/24] | Cairo, Egypt

- Developed an IoT-based Smart City monitoring system using sensor data and cloud integration.
- Created a web and mobile dashboard to display real-time sensor data.

Team Leader – Business-to-Customer (B2C)

AIIESEC | [7/23 – 6/24] | Cairo, Egypt

- Led a team to achieve sales and customer engagement targets.
- Managed recruitment, training, and strategic planning for business outreach.

Projects

Paraphrasing Tool Using LLMs (NLP)

Fine-tuned LLAMA 1B, 3B, and 8B models for efficient text paraphrasing.
Compared results using prompt engineering and fine-tuning techniques.

Smart Parking System (IoT, Cloud, Real-Time Monitoring)

Developed a real-time parking monitoring system using sensors and cloud integration.
Won 1st place in UGRF competition (IoT projects between 15 competitors).

Blood Donation Platform (AI, Web, Healthcare Tech)

Developed a website and mobile app to connect blood donors with hospitals and blood banks.
Integrated AI features to predict future diseases and donor availability.
Won 3rd place in the Samsung Hackathon.

Netflix Data Analysis Dashboard (Power BI, Tableau)

Built a data visualization dashboard to analyze Netflix content distribution, ratings, and trends.

Answered key business questions using descriptive and diagnostic analytics.

Customer Segmentation Analysis (Data Analysis, Clustering)

Performed customer segmentation using K-means and DBSCAN clustering algorithms.

Extracted actionable insights from customer purchasing behavior to optimize marketing strategies.

Image Classification Model (Deep Learning, Computer Vision)

Developed a CNN-based image classification model to categorize images with high accuracy.

Used TensorFlow and PyTorch to train and evaluate the model on large datasets.

Animal Body Segmentation Using Deep Learning (Image Processing, AI)

Built a deep learning model to segment different parts of an animal's body.

Used semantic segmentation techniques to improve accuracy.

Big Data Segmentation Analysis Using Spark (Big Data, AI)

Applied Spark-based segmentation analysis on large datasets.

Optimized data processing speed and model efficiency.

E-Commerce Mobile App (Flutter, Dart, RESTful APIs)

Developed a cross-platform e-commerce mobile app using Flutter and Dart.

Integrated RESTful APIs for product listings, user authentication, and payment processing.

Designed a responsive UI with smooth navigation and real-time updates.

Achievements

- 1st Place Winner – UGRF IoT Competition (Smart Parking System, among 15 projects)
- 3rd Place Winner – Samsung Hackathon (Blood Donation AI & Web App)
- Selected for ITI ML Training Program

Certifications & Training

- Machine Learning Training – ITI
- Google Cloud Platform (GCP) Training
- Big Data & Hadoop Certification

Leadership & Volunteering

- Team Leader, AIESEC (B2C Division) – Led a high-performing team to achieve organizational goals.
- Ambassador at Bokra Company – Represented the company in outreach programs and events.

Relevant Tools & Technologies

ML Frameworks: TensorFlow, PyTorch, Scikit-learn, Hugging Face Transformers

Big Data & Cloud: Apache Spark, Hadoop, Google BigQuery, Google Cloud Platform (GCP)

IoT & Embedded Systems: AWS IoT, Google IoT Core, Raspberry Pi, Arduino, ESP32

Mobile Development: Flutter, Dart, RESTful APIs

Data Visualization: Power BI, Tableau, Matplotlib, Seaborn

Web Development: Node.js, React.js, HTML/CSS, JavaScript, RESTful APIs, GraphQL

Version Control & DevOps: Git, GitHub, Docker, Kubernetes

Other Tools: CUDA, MPI, Jupyter Notebooks, Postman