

# Abdelrahman Ahmed

Cairo, Egypt

Abdelrahman.egschool@gmail.com | +201066986667 | [github.com/coolAbdo](https://github.com/coolAbdo) | [linkedin.com/in/abdelrahman-ahmed-b38309261](https://linkedin.com/in/abdelrahman-ahmed-b38309261)

## SUMMARY

Data Science student with strong expertise in data cleaning, analysis, and visualization using Python and SQL. Experienced in building predictive models and developing dashboards to provide actionable insights. Passionate about leveraging data-driven techniques to enhance decision-making and drive innovation in various sectors.

## SKILLS

Data cleaning, Data analysis, Python, SQL, Pandas, Data visualization, Machine Learning, Matplotlib, Seaborn, Exploratory Data Analysis, Dashboard development, Attention to detail, Problem-solving, Communication, Team collaboration

## WORK EXPERIENCE

### German International University

Oct 2023 - Jan 2025

Junior Teaching Assistant

German International University, Administrative Capital, Egypt

- Assisted over 80 students in understanding Java and object-oriented programming through hands-on guidance and debugging.
- Provided mentorship on coding assignments and projects, helping students improve problem-solving skills and code quality.

### Information and Decision Support Center IDSC, Cabinate

Aug 2024 - Sep 2024

Software Developer Intern

IDSC, Administrative Capital, Egypt

- Developed and optimized scalable web applications using ASP.NET C# MVC, following best practices in software architecture.
- Designed and managed SQL databases, improving data efficiency and retrieval performance.
- Optimized data retrieval and manipulation using Entity Framework and LINQ, improving application efficiency.

### ENPPI

Sep 2024 - Sep 2024

Software Developer Intern

ENPPI, Nasr City, Cairo, Egypt

- Gained hands-on experience in IT security and infrastructure, enhancing organizational security through network security and phishing assessments.
- Utilized no-code development tools like Glide and Power BI to streamline business processes and support data-driven decision-making.

## PROJECTS

### 3D Rendering Engine

Dec 2024 - Dec 2024

Using JavaFX

- Developed a custom 3D engine in Java and JavaFX to render OBJ files, implementing model loading from scratch.
- Implemented interactive camera controls allowing users to look around, zoom, and navigate the 3D space smoothly.
- Optimized rendering to efficiently handle object rotation, scaling, and movement while maintaining performance.

### Data Engineering

Oct 2024 - Dec 2024

Athlete Data Engineering

- Cleaned and standardized an athlete dataset using Python (Pandas) by fixing formatting issues, handling missing values, and ensuring data consistency for accurate analysis.
- Engineered new features to uncover hidden patterns, enabling deeper insights that were not easily obtainable before preprocessing.
- Designed an interactive Power BI dashboard to visualize key trends, making data-driven insights more accessible and actionable.

### E-learning Website

Oct 2024 - Jan 2025

Using Next and NestJS

- Built a full-stack e-learning platform using Next.js, NestJS, TypeScript, and MongoDB, enabling seamless interaction between students and tutors for an engaging learning experience.
- Developed a real-time quiz system with instant feedback and integrated course content, including videos and PDFs, to enhance student engagement and understanding.
- Implemented a chat and forum system, allowing students to ask tutors questions directly or discuss course-related topics with peers for collaborative learning.

## EDUCATION

### German International University

Sep 2022 - Jun 2026

Bachelor in Data Science