

Malak Ahmed Azab

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Career Objective

Junior Data Analyst with a strong background in data wrangling, statistical analysis, and data visualization. Experienced in ETL processes and building interactive dashboards using Power BI and Python. Familiar with big data tools such as Hadoop and Spark. Currently applying these skills at Dayra to deliver actionable insights and support data-driven decision making, while continuing to expand expertise through specialized training programs.

Education

Ain Shams University – Faculty of Computer and Information Science
B.Sc. in Computer Science, Class of 2025

Internship Experience

Junior Data Analyst– Dayra (July 2025 – Present)

- Analyzing and mapping company database fields to prepare structured, high-quality reports.
- Designing and automating dashboards on Metabase to deliver data insights and support regulatory/business reporting needs.
- Improving data workflows and documentation to ensure accuracy and consistency across reports.

AI & Data Science Trainee – Digital Egypt Pioneers initiative, MCIT (June 2025 – Present)

- Undergoing intensive training in Python programming, data cleaning and preprocessing, data visualization, and machine learning, as part of a national program organized by MCIT in collaboration with IBM.

Summer Program Trainee – CIB Egypt (July 2025)

- Selected based on academic background and potential.
- Accepted into a 3-week program exploring real-world banking, sustainability, and innovation topics

Big Data Trainee – NTL, Huawei Big Data Associate Program (July 2025 – August 2025)

- Enrolled in an 80-hour certified program focused on big data tools and technologies such as Hadoop, Spark, and HDFS.

Big Data Analytics Trainee – Orange Digital Center & Digital Hub (February 2025)

- Analyzed complex datasets to identify trends and optimize decision-making using PySpark, Hadoop, Pandas, and SQL.
- Planned and deployed interactive dashboards in Power BI to enhance data-driven insights.
- Built machine learning models for trend forecasting and anomaly detection, improving data accuracy.

Data Analytics Intern – Oasis Infobyte (March 2025 – April 2025)

- Gained hands-on experience in data analytics concepts and tools.
- Worked on data-driven projects to enhance analytical skills.

Data Science Intern – CodSoft (March 2025 – April 2025)

- Developed machine learning models and performed data preprocessing.
- Applied statistical techniques for data-driven insights.

Data Analytics Intern – Intern Intelligence (March 2025 – April 2025)

- Conducted exploratory data analysis (EDA) on real-world datasets.
- Built visualizations and dashboards for business insights.

InnovEgypt Training Program – TIEC & Aspire Consulting (January 2025)

- Conducted market research and business model validation to refine project strategies.
- Collaborated with multidisciplinary teams to develop innovative business solutions.

Full Stack .NET Intern – ITI (August 2024 – September 2024)

- Engineered responsive web applications using C#, ASP.NET, and SQL, enhancing platform efficiency.
 - Enhanced and optimized backend APIs with Entity Framework and RESTful services for seamless integrations.
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Skills:

- **Programming:** SQL, Python, C++, Java, C# (Proficient) | HTML5, CSS3 (Intermediate).
- **Data & ML:** Pandas, NumPy, Scikit-learn, TensorFlow, Keras, OpenCV, Web Scraping, EDA, Data Wrangling, Data Cleaning, Feature Engineering.
- **Big Data & Visualization:** Power BI, Metabase, Excel, Hadoop, Spark, HDFS, PySpark.
- **Databases & Backend:** Oracle SQL, PostgreSQL, MySQL, SQL Server, Node.js, Express, REST APIs.

- **Tools & Concepts:** OOP, Data Structures, Git, ETL, Statistical Analysis, Model Evaluation.
 - **Soft Skills:** Leadership, Public Speaking, Problem-Solving, Time Management, Teamwork, Multitasking, Collaboration, Analytical Thinking.
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Projects

Graduation Project: Sleep Apnea Detection from ECG Signals (2025)

- Developed and compared multiple models including ResNet, Transformer, LightGBM, and CNN-LSTM-Fuzzy for binary and multi-class apnea classification.
- Worked with two real-world ECG datasets: PhysioNet Apnea-ECG and MIT-BIH.
- Designed a Flutter-based mobile application targeting medical professionals, enabling offline ECG data analysis, result visualization, and patient history tracking.

Online Articles Popularity Prediction (Python, Scikit-learn)

- Created a predictive model to forecast article popularity before publication.
- Enhanced feature selection and preprocessing to boost model accuracy.

Plant Classification & Disease Detection (OpenCV, ML)

- Enhanced a computer vision system using SVM and Siamese networks for automated plant classification.
- Applied image processing techniques to detect and diagnose plant diseases efficiently.

Income Prediction using Demographic Features (Python, ML)

- Executed a predictive model to classify income levels based on demographic and economic data.
- Implemented advanced feature engineering to improve model performance.

EEG Signal Classification using Motor Imagery (Python – Feature Engineering, SVM)

- Preprocessed complex EEG data and extracted features using CSP for movement classification.
- Evaluated classification performance using accuracy metrics and compared multiple models.

Sentiment Analysis of Movie Reviews (Python, NLP/TF-IDF)

- Preprocessed text reviews and extracted features using TF-IDF.
 - Trained a classifier to predict review sentiment (positive/negative).
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Leadership & Extracurricular Activities

- **President** – MAM (Feb 2024 – Jul 2024)
 - **Vice President of PR & HR** – MAM (Sep 2023 – Jul 2024)
 - **Vice President** – RoboTech (Oct 2024 – Dec 2024)
 - **Mentor Director** – NASA Space Apps Hackathon Obour (Sep 2024)
 - **Participant** – Egyptian Collegiate Programming Contest (ECPC) (2023), Strengthened algorithmic problem-solving and teamwork under time pressure
 - **Data Analysis Member** – Potentia (Nov 2024 – Aug 2025)
 - **Training of Trainers Member** – Alpha ASU (Mar 2025 – June 2025)
 - **Volunteer** – Employment Fair, ASU Career Center (Marketing Team – 2023, Employer Relations Team – 2025)
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Languages

- **Arabic:** Native
- **English:** B2 (Upper-Intermediate)