

# Ziad Mostafa

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## Education

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**Benha University** Banha, Qalyubia, Egypt  
B.Sc. in Computer Science Major: Artificial Intelligence GPA: 3.51 2021 - 2025

## Experience

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**Vice Head of Data Science and AI @ GDG On Campus BU** Oct 2024 - Present

- Spearheading the Data Science and AI team, mentoring members on AI and machine learning projects.
- Organized and conducted workshops, including Online Sessions, to enhance technical skills among students.
- Facilitated hands-on training in data science tools and frameworks, encouraging collaboration within the team.

**Data Scientist @ ZeNN - Part Time** Mar 2024 - Jul 2024

- Cleaned, analyzed, and visualized data using Python and data analysis tools.
- Developed time series forecasting models to drive business success with AI.
- Collaborated with cross-functional teams to identify business needs and create data-driven solutions.
- Enhanced decision-making processes by developing predictive models.

**Data Analyst Intern @ Enakl - Part Time** Jan 2024 - Mar 2024

- Cleaned, analyzed, and visualized data using Python, SQL, Looker Studio, and Google Colab.
- Conducted data quality assessments and implemented data cleaning procedures.
- Created comprehensive reports to present key insights and support business decisions.

## Projects

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- **Facial Age Transformation:** Deep learning model performing facial age transformation using CycleGAN architecture.
- **Real-time Sign Language Recognition:** Real-time application using MediaPipe and TensorFlow for hand gesture recognition.
- **Sleep Posture Classification:** Machine learning system for classifying sleeping postures using MediaPipe pose landmarks.
- **Fire and Smoke Detection:** YOLOv8 segmentation model for detecting fire and smoke in images.
- **Egyptian Hieroglyph Classification:** Deep learning models for classifying ancient Egyptian hieroglyphic symbols.
- **Plant Disease Classification:** System for identifying plant diseases from leaf images with Streamlit interface.
- **Image Captioning System:** Combined DenseNet201 and LSTM model for generating image descriptions.
- **Fake News Detection:** RNN and LSTM models for detecting fake news articles.
- **Movie Recommendation System:** Hybrid recommendation system using content-based filtering.
- **Diamond Price Prediction:** Machine learning model for predicting diamond prices based on characteristics.
- **Hourly Energy Consumption:** XGBoost model for forecasting energy consumption patterns.
- **Income Salary Prediction:** Predictive model for income estimation using demographic features.
- **Spotify Analytics Dashboard:** Interactive Power BI dashboard analyzing 30,000 Spotify tracks.
- **Python Streamlit Dashboard:** Interactive data visualization dashboard built with Streamlit.
- **Job Titles Salary Analysis:** Comprehensive analysis of job titles and corresponding salaries.
- **Google Maps Scraper:** Python script using Selenium to extract location data from Google Maps.
- **Jumia Web Scraping:** BeautifulSoup-based scraper for extracting product data from Jumia.
- **Deep Learning with Python:** Implementation of concepts from François Chollet's deep learning book.

## Skills

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- **Programming Languages:** Python, R, SQL, C++, Java
- **Data Analysis:** Pandas, NumPy, Matplotlib, SciPy
- **Data Visualization:** Power BI, Tableau, Python, Excel, Seaborn, Plotly
- **Machine Learning:** Scikit-learn, TensorFlow, Keras, PyTorch, Azure Machine Learning
- **Soft Skills:** Teamwork, Collaboration, Effective Communication, Problem-Solving, Analytical Thinking, Time Management
- **Other Skills:** Data Wrangling, OOP, Data Structures, Algorithms, RESTful APIs, Git, GitHub, Docker, Microsoft Azure, Linux, WSL

## Training

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### Data Scientist Intern @ ShAI

Feb 2024 - Sep 2024

- Gained hands-on experience in machine learning and data science.
- Mastered data manipulation, visualization, and ML techniques using Python libraries.
- Developed skills in project management, storytelling, and time management.

### Machine Learning for Data Analysis @ NTI

Jul 2023 - Aug 2023

- Learned various ML algorithms, data preprocessing, and model evaluation techniques.
- Gained proficiency in ML tools and libraries for real-world data analysis.
- Explored ethical considerations in machine learning applications.

## Courses & Certifications

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- Microsoft Certified: Azure Data Scientist Associate
- Google Data Analytics Professional Certificate
- IBM Data Analyst Professional Certificate
- Data Analyst in Power BI - Datacamp
- Data Analyst in SQL - Datacamp
- Supervised Machine Learning
- Data Analyst with Python - Datacamp

## Languages

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- **Arabic:** Native
- **English:** Advanced (B2)
- **German:** A1