Ziad Mostafa
Data Scientist

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Education

Benha University — *Benha, Egypt*
B.Sc. in Computer Science — *Sep 2021 – Jun 2025*

○ GPA: 3.56/4.0
○ Major: Artificial Intelligence
○ **Relevant Coursework:** Machine Learning, Deep Learning, Data Science, NLP, Computer Vision
○ **Thesis:** Machine-Generated Text Detection with Exam Grading System

Experience

Data Scientist *Diseo* — *Apr 2025 – Jun 2025*

○ Researched and evaluated blockchain platforms (Hyperledger Fabric, Solana, Sui, Worldcoin, Injective, Onyxcoin, EOS) for integration into a decentralized social media ecosystem.
○ Conducted comparative analysis on scalability, governance, revenue, identity systems, and EVM compatibility.
○ Authored a comprehensive report recommending optimal blockchain solutions for multi-role governance and biometric identity verification.
○ Advised on platform architecture for secure digital identity, automated revenue distribution, and zero-knowledge proof use cases.

Vice Head of Data Science and AI *GDG On Campus BU* — *Oct 2024 – Apr 2025*

○ Led 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 over 200 hands-on training sessions in data science tools and frameworks for more than 1000 members, significantly enhancing team capabilities.

Data Scientist Trainee *ShAI* — *Feb 2024 – Sep 2024*

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

Data scientist *NTI* — *Jul 2024 – Aug 2024*

○ Actively utilized various ML algorithms, data preprocessing, and model evaluation techniques.
○ Gained proficiency in ML tools and libraries for real-world data analysis.

Data Scientist *ZeNN* — *Mar 2024 – Jul 2024*

○ Cleaned, analyzed, and visualized data using Python and data analysis tools to derive actionable insights.
○ Developed time series models to enhance forecasting and support strategic decisions.
○ Collaborated with cross-functional teams to identify business needs and create data-driven solutions.

Data Analyst Intern *Enakl* — *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

Facial Age Transformation

○ Developed a CycleGAN-based deep learning model for facial age transformation, enabling realistic aging effects for identity verification and digital forensics applications.

Real-time Sign Language Recognition

○ Implemented a real-time sign language recognition application leveraging MediaPipe for robust hand tracking and

TensorFlow for gesture classification, enhancing accessibility and communication for the hearing-impaired.

Image Captioning System
- Constructed an image captioning system by integrating DenseNet201 for feature extraction and an LSTM network for sequence generation, improving image understanding and accessibility for visually impaired users.

Fake News Detection
- Developed and deployed RNN and LSTM models for identifying and classifying fake news articles, contributing to improved information literacy and mitigating the spread of misinformation.

Skills

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

Other Skills: Data Wrangling, OOP, Data Structures, Algorithms, RESTful APIs, Git, GitHub, Docker, Microsoft Azure, Linux

Courses & Certifications

- 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

Arabic: Native   **English:** Fluent   **German:** A1