

Mohamed Hany Samir

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OBJECTIVES

Computer Science student passionate about Artificial Intelligence and Data Science, currently specializing in Data Engineering. Skilled in Python, SQL, and data processing techniques, with strong knowledge of databases and cloud concepts. Enthusiastic about building scalable data pipelines and applying machine learning models to solve real-world problems.

PROFESSIONAL EXPERIENCE

- **Data Engineering Trainee | Digital Egypt Pioneers Initiative – DEPI** **Jul 2025 – Present**
 - Designed and optimized SQL queries for data extraction, transformation, and analysis, ensuring high data accuracy
 - Built data pipelines integrating web scraping and APIs for automated data collection and ingestion.
 - Authored technical documentation for model deployment, improving team onboarding efficiency by 20%.
- **Big Data Trainee | National Telecommunication Institute – NTI** **Aug 2025 – Sep2025**
 - Architected machine learning pipelines for air delay prediction, achieving 99.90% accuracy and enabling \$2.5M in potential airline savings [[Link](#)].
 - Standardized data preprocessing scripts, cutting setup time by 15% and ensuring secure data handling.
 - Led workshops on feature engineering, fostering team collaboration and knowledge-sharing.
- **Fundamental of Programming | Beni-Suef Unifersity** **Jul 2023 - Aug 2023**
 - Gained strong foundation in C++ programming, focusing on problem-solving and algorithmic thinking
 - Collaborated with cross-functional teams to design and implement data-driven AI solutions.
 - Optimized model performance through iterative testing and refinement, enhancing solution reliability.

EDUCATION

Bachelor of AI and Data Science | Beni-Suef National University **Oct 2023 - Jun 2026**
CERTIFICATIONS

- Deep Learning Fundamentals, NVIDIA
- Intro to Deep Learning, Kaggel
- Intro to Machine Learning, Kaggel
- Fundamental of Programming, Beni-Suef University
- SQL Advanced, Hacker rank
- Intro to python, BSU

PROJECTS

- **Diabetes Prediction Model** **Apr 2024**
 - Developed a machine learning model with decision trees to predict the likelihood of diabetes in patients.
 - Preprocessed medical datasets, trained the model, and evaluated performance metrics for accuracy.
- **Bus Ticket Booking Software Application** **April 2025**
 - Developed a full software application for bus ticket reservation, including user interface and backend database.
 - Implemented booking management, seat selection, and payment processing features.
- **Chocolate Factory Sales Dashboard** **Mar 2025**
 - Created an interactive dashboard to monitor chocolate factory sales and export destinations
 - Integrated data visualization tools to provide real-time insights for business decision-making.

SKILLS

- **Programming & Tools:** Python, SQL, MySQL, Git, GitHub, Jupyter Notebook, Google Colab
- **Machine Learning:** Scikit-Learn, GridSearchCV ML Image Preprocessing.
- **Deep Learning:** Keras, CNN, Neural Networks, Computer Vision, Yolo
- **Data Analysis:** Pandas, NumPy, Plotly, Data Preprocessing, Data Visualization.

Volunteering

- **Head of HR | IEEE Beni-Suef Student Branch** **Nov 2024 - May 2025**
 - Led the recruitment and onboarding process for new members across multiple committees.
 - Designed and conducted internal surveys to assess team satisfaction and engagement.
 - Collaborated with team leads to resolve member issues and boost retention.