

# Mohamed Hany

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## EDUCATION

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Beni-Suef national University, Beni-Suef

2026

*Bachelor of Artificial Intelligence and Computer Information, Degree: very good, GPA: 2.9*  
*Relevant course work: Junior AI Developer & Computer Scientist*

## PROFESSIONAL EXPERIENCE

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IEEE Beni Suef Student Branch

Nov 2024 – May 2025

*Head of HR*

- 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.

## INTERNSHIPS

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Digital Egypt Pioneers Initiative (DEPI)  
Data Engineering

June 2025 – Ongoing

- Gained practical skills in ETL pipeline design, big data processing (Spark, Kafka), and workflow orchestration using Apache Airflow.
- Worked with SQL, NoSQL, and Microsoft Azure services (Synapse, Data Lake, Stream Analytics).
- Applied Python for data manipulation, visualization, and integration with AI models in real-world case studies.

National Telecommunication Institute (NTI)  
Big Data Analysis

August 2025

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## COURSES & CERTIFICATIONS

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Beni-Suef University

June 2023 – Sep 2023

**Fundamentals of programming**

- Studied core programming concepts using Python and Object-Oriented Programming (OOP)
- Gained foundational skills in Data Structures
- Introduced to Database fundamentals and SQL for data storage and retrieval.

## Intro to Machine Learning

- Gained hands-on experience with supervised machine learning techniques using real-world datasets.
- Learned key concepts such as model validation, overfitting, and decision trees using Python.
- Developed practical skills in building and evaluating ML models for prediction tasks.

**PROJECTS & EXTRACURRICULAR**

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**Firefighter Robot****Apr 2024**

- Designed and built an autonomous firefighting robot using Arduino Uno, flame sensors, and motor drivers.
- Programmed the robot to detect fire sources and navigate obstacles to extinguish fires efficiently.

**Diabetes Prediction Model Using Decision Trees****Apr 2023**

- 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.

**Chocolate Factory Sales Dashboard****Jul 2024**

- 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.

**Autoencoder Model for Data Compression****Apr 2024**

- Built an autoencoder neural network to compress and reconstruct image data effectively.
- Experimented with different encoding dimensions and epochs to optimize performance.

**Bus Ticket Booking Software Application****Apr 2024**

- Developed a full software application for bus ticket reservation, including user interface and backend database.
- Implemented booking management, seat selection, and payment processing features.

**SKILLS**

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**Programming languages:** Python, C++, Java, JavaScript, HTML, CSS, SQL**AI & Data Science Tools/ Frameworks:** React, jQuery, Flask (basic), Node.js (basic)**software/frameworks:** Microsoft Office Suite, Git, VS Code, Jupyter Notebook**Languages:** Arabic (native), English (advanced)