

# Nour El-Rouby

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## SUMMARY

Third-year Artificial Intelligence and Data Science student with a strong passion for AI and Machine Learning, complemented by hands-on experience in data analysis and problem-solving. Proficient in data preprocessing, statistical analysis, and building machine learning models using Python and Scikit-learn. Skilled in creating insightful visualizations with Power BI and Tableau. Eager to leverage analytical and technical expertise to design intelligent, data-driven solutions that address real-world challenges.

## EDUCATION

### Beni-Suef National University – Faculty of Computers and Artificial Intelligence

Bachelor of Computer Science, Major in Artificial Intelligence & Data Science

Oct 2023 – May 2027

## SKILLS

- Programming Languages: Python (NumPy, Pandas, Scikit-learn, TensorFlow, PyTorch), Java, C++
- Database Management: SQL Server, MySQL, Oracle SQL
- Data Analysis & Processing: Excel, Pandas, NumPy
- Data Visualization: Power BI, Matplotlib, Tableau, Seaborn
- Artificial Intelligence & Machine Learning: Deep Learning (CNNs, RNNs), Natural Language Processing (NLP), Generative AI, Model Deployment, Computer Vision
- Soft Skills: Team Leadership, Research Skills, Communication Skills
- Languages: Arabic (Native), English (Full Professional)

## CERTIFICATIONS

### AI & Machine Learning:

- Introduction to Artificial Intelligence – LinkedIn (Jul 2025)
- Career Essentials in Generative AI – Microsoft & LinkedIn (Aug 2025)
- Generative AI Using SAS – SAS (Aug 2025)
- Generative AI: Working with Large Language Models – LinkedIn (Aug 2025)
- Microsoft Azure AI Essentials Professional Certificate – Microsoft & LinkedIn (Jul 2025)
- Applied Deep Learning Certification – NVIDIA (Sep 2025)

## **Data Analytics & Visualization:**

- Introduction to Data Science – Cisco Networking Academy (Jan 2025)
- Summer Training in Advanced Data Analytics – NTI (July 2025)
- Google Analytics Certification – Google (Aug 2025, Expires Aug 2026)

## **EXPERIENCE**

### **Trainee – Artificial Intelligence**

Information Technology Institute (ITI), Egypt | July 2025 – Aug 2025

- Learned and applied core AI concepts, including machine learning algorithms and neural networks.
- Developed and tested small-scale AI models using Python and Scikit-learn.
- Participated in collaborative projects simulating real-world AI problem-solving scenarios.

### **Trainee – Advanced Data Analyst**

National Telecommunication Institute (NTI), Egypt | June 2025 – July 2025

- Gained hands-on experience in advanced data analytics techniques, including data cleaning, preprocessing, and EDA.
- Applied Python libraries (Pandas, NumPy, Matplotlib) for data manipulation and visualization.
- Worked on real datasets to identify patterns, trends, and actionable insights for decision-making.

## **PROJECTS**

- **Market Basket Analysis** – Implemented association rule mining in Python to identify product correlations and optimize cross-selling strategies.
- **Mental Health Chatbot** – Developed an NLP-based chatbot using transformer models for intent detection and supportive dialogue delivery.
- **CodeClause Data Science Project** – Built predictive churn models (Random Forest, XGBoost) with feature engineering and deployed dashboards for retention KPIs.
- **Face Mask Detection** – Designed a CNN-based real-time face mask detection system using OpenCV, achieving high accuracy and recall.
- **Fitbit Health Dashboard** – Created interactive Power BI dashboards to visualize wearable device data and monitor health KPIs.
- **Amazon Web Scraper Project** – Developed Python scrapers with BeautifulSoup/Requests to extract and normalize product data for analysis.