# Mennatullah Tarek *AI/ML Engineer*

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## Profile

AI/ML Engineer with a strong academic foundation and a love for building impactful AI solutions. Through hands-on experience in machine learning, data analytics, and deep learning. During ITI's 9-month AI diploma and several real-world projects, I built strong skills in Python, TensorFlow, SQL, and end-to-end ML pipelines. My work spans supervised and unsupervised learning, NLP, and deep learning applications. I am currently expanding my expertise into generative AI and large language models. Proficient in using Tableau for data visualization and comfortable working with Linux environments. Recognized for being a fast learner, collaborative team player, and clear communicator with a passion for using AI to solve real-world challenges.

## Education

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| 10/2024 – 06/2025 | **9-Month Diploma (ITI) Information Technology Institute ,(MCIT) Ministry Of Communications and Information Technology, Artificial intelligence and machine learning, Mansoura Branch** |
| 2020 – 2024 | **B.Sc. in Computer Science – Faculty of Computer and Information Sciences, Mansoura University, Excellent with Honor degree.** |

## Internships

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| 08/2024 – 10/2024 | **Data Analyst Intern _ Neutrinotix** |
| 07/2023 – 09/2023 | **Summer internship in Computer Vision (ITI) Information Technology Institute , (MCIT) Ministry of communications and Information Technology** |

## Skills

**Programming:**
Python, SQL, Linux, Bash, Object-Oriented Programming (OOP)

**Data Analytics & Processing:**
Data Wrangling, Feature Engineering, EDA, Pandas, NumPy, Matplotlib, Seaborn, PySpark (introductory)

**AI/ML Development:**
Regression, Classification, Clustering, Model Evaluation, Scikit-learn, TensorFlow, Keras, PyTorch (basics)

**Generative AI:**
Prompt Engineering, LLMs (conceptual understanding; hands-on training in progress)

**Computer Vision & NLP:**
OpenCV, Image Processing, Object Detection, Text Processing

**Tools & Platforms:**
Git, GitHub, Jupyter Notebook, Visual Studio Code, Streamlit, MySQL, MongoDB.

**Data Visualization:**
Tableau, Power BI, Matplotlib, Seaborn, Excel

**Automation & Web Scraping:**
BeautifulSoup, Selenium

## Projects

**Multiclass Prediction of Obesity Risk** ⎘
- Built and deployed a full ML pipeline including preprocessing, modeling, and evaluation.

**Twitter Hate Speech Detection** ⎘
- Applied NLP techniques and machine learning to detect hate speech in tweets.

**Document Clustering** ⬈
- Used vectorization and clustering to analyze and group text documents.

**Deep Learning Projects** ⬈
- Developed models using CNNs, RNNs, and LSTMs for sequence data.

**Machine Learning Projects** ⬈
- Built ML models classification, regression, and clustering with full pipelines, evaluation, and deployment

**Web Scraping for Data Analysis** ⬈
Automated data extraction using Selenium and BeautifulSoup.

**Sales and Trends Analysis** ⬈
- Analyzed sales data trends using Power BI, Excel, Tableau and Python.

## Extracurricular Activities

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| 04/2023 – 05/2024 | **Data science Member**<br>*IEEE, Mansoura Branch* |
| 10/2022 – 09/2023 | **Head of Public Relations**<br>*CIS, Mansoura University* |
| 07/2022 – 08/2023 | **Team Leader**<br>*Alam* |
| 09/2021 – 09/2022 | **Core Team Members**<br>*GDSC, Mansoura University* |

## Awards

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| 05/2024 | **Graduation Projects, First Place**<br>*Ebtikar competition, Mansoura University* |
| 01/2024 | **Second Place**<br>*IEEE Mansoura Branch Data science Competition* |
| 05/2023 | **Second place**<br>*Software Engineering Competition, FCIS* |
| 11/2022 | **First Runner-up in Africa**<br>*Huawei ICT Competition* |

## Languages

| **English** | **Arabic** |
|---|---|
| B2 | Native |

## Personal Skills

| **Analytical Thinking and Problem-Solving**<br>*Intermediate Level* | **Leadership, Collaboration, and Teamwork Experience**<br>*Graduation Project Team Leader* |
|---|---|
| **Business Development and Strategy Knowledge** | **Public Speaking and Presentation Skills** |
| **Quick Learner with a Growth Mindset** | **Effective Communication with Diverse Audience** |