

# MOHAMED ABDELBASIT

## AI ENGINEER

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### SUMMARY

Driven and detail-oriented AI and Data Science professional with hands-on experience in Python, C++, and SQL. Proficient in key Python libraries including NumPy, Pandas, Matplotlib, Scikit-learn, and TensorFlow for data analysis, visualization, and machine learning model development. Strong analytical and problem-solving skills with a passion for turning complex data into meaningful insights. Recognized for clear communication and the ability to explain technical concepts effectively. Committed to continuous learning, innovation, and contributing to impactful AI-driven solutions.

### EDUCATION

- **Bachelor's degree in Artificial Intelligence | Menoufia University** **OCT 2022 - Aug 2026**
- **AI & Machine Learning Diploma | AMIT Learning Academy** **AUG 2024 - JAN 2025**

### PROJECTS

#### Faculty of Exoplanets – AI-Driven Platform (NASA Space Apps Challenge 2025)

- Developed an AI-powered platform using NASA's open datasets to classify and analyze exoplanets through models like XGBoost, LightGBM, and KNN
- Built interactive dashboards and a habitability prediction website using Python, FastAPI, React.js, and Streamlit  
[Habitability Dashboard](#) [GitHub Repository](#)

#### Gender and Age Classification

- Developed a deep learning-based tool that classifies gender (Male/Female) and predicts age categories from images using CNN and VGG16 models.
- Deployed an interactive web app with Streamlit, allowing users to upload images and get real-time predictions.
- Tech stack: Python, TensorFlow, Keras, OpenCV, Streamlit. [GitHub Repository](#)

#### Car Crash Severity Prediction

- Developed a machine learning model to predict crash severity (Minor, Severe, Fatal) using crash, vehicle, driver, and environmental features.
- Performed full data science workflow — data cleaning, feature engineering, EDA, model training, and evaluation — achieving strong accuracy with Random Forest.
- Tech stack: Python, Pandas, NumPy, Scikit-learn, Seaborn, Matplotlib.  
[GitHub Repository](#)

#### Bank Marketing Term Deposit Prediction

- Built a classification model to predict whether a bank client will subscribe to a term deposit based on demographic and campaign data.
- Performed EDA, data preprocessing, feature encoding, and model training using Logistic Regression, Decision Tree, Random Forest, and SVM.
- Evaluated models with accuracy, F1-score, and confusion matrix to select the best-performing algorithm.
- Tech stack: Python, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn.  
[GitHub Repository](#)

### EXPERIENCE

#### AI Instructor — Skills Area

Aug 2025 - Present

- Teach core topics including Python programming, data analysis, supervised and unsupervised learning, and model evaluation.
- Guide students through hands-on projects to build real-world problem-solving skills.
- Deliver AI and Machine Learning sessions with a focus on practical, project-based learning
- Provide mentorship and technical support, helping learners understand and apply AI concepts effectively.

## CERTIFICATIONS & AWARDS

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- [Machine Learning Specialization - Stanford University](#)
- [Database Fundamentals -Mahara Tech](#)
- [Problem Solving - Hacker Rank](#)
- [AI & Machine Learning \(72hrs\) - ITI](#)
- [Python Programming - Mahara Tech](#)
- [Problem Solving - ICPC](#)
- [1st Place and Global Nominee – NASA Space Apps Challenge 2025 \(Local Event, Shebeen El-Koom\)](#)

## SKILLS

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### Technical Skills :

- Programming Languages : Python , C++ , Matlab , Prolog
- Python Libraries and Frameworks : Numpy , Pandas , Seaborn , Matplotlib , scikit-learn , PyTorch , Streamlit , Flask , TensorFlow And Keras

### Soft Skills :

- Teaching & Mentoring
- Problem Solving
- Team Collaboration leadership abilities
- Critical Thinking
- Continuous Learning

### Languages :

- Arabic (Native)
- English (C1)

## VOLUNTARY WORK

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- **AI Mentor - Shabab Betesaed Shabab**  
Guided students through fundamentals of Artificial Intelligence and Machine Learning, providing hands-on mentorship, reviewing projects, and helping them build real-world applications.
- **Member of Development Team - Compiler Community**
  - Contributed to the development of innovative projects and initiatives within the community.
  - Enhanced technical and soft skills, including leadership and time management.
  - Collaborated with a diverse team, gaining valuable hands-on experience.
  - Expanded my professional network and learned from industry experts.
- **Joker Team Leader – Shabab Betesaed Shabab**  
Mentored and guided youth in developing diverse skills such as programming, marketing, content writing, graphic design, and video editing. Supervised and organized large-scale youth-focused events to promote skill development and community engagement.