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Machine Learning Engineer

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Objective

Third-year Computer Science student and Junior ML Engineer with hands-on experience in Machine Learning, Deep Learning, and data preprocessing. Completed an intensive AI Diploma at Route and currently selected for the competitive DEPI scholarship in partnership with Microsoft. Skilled in Python, TensorFlow, and PyTorch, with real-world projects in NLP, time-series forecasting, and intelligent systems. Actively seeking internship or freelance opportunities to apply and expand my skills in data-driven solutions.

Experience

AI & Data Science — Microsoft ML Engineer | DEPI Scholarship

Dec 2025 – Present

- Selected for the highly competitive DEPI scholarship, a national program run in partnership with Microsoft Egypt.
- Pursuing an intensive track in Machine Learning and Data Science, focusing on cloud-based AI solutions and Azure technologies.

Artificial Intelligence & Machine Learning Diploma | Route Academy

Jun 2025 – Nov 2025

- Mastered Python for Data Science with Pandas and NumPy for data cleaning and preprocessing.
- Implemented and evaluated classical ML algorithms including Regression, SVM, Random Forest, K-Means, and Naive Bayes.
- Built advanced Deep Learning architectures: ANNs, CNNs, RNNs, and LSTMs using TensorFlow and PyTorch.

Technical Skills

Data Visualization: Matplotlib | Seaborn

Data Preprocessing: Pandas | NumPy

Machine Learning: Scikit-Learn | Regression | SVM | Random Forest | K-Means | Naive Bayes

Deep Learning: ANN | CNN | RNN | LSTM

Core: Problem Solving | Data Structure | Algorithms

DevOps & Deployment: Git | GitHub

Programming Languages: C++ | C# | Java | Python

Soft Skills: Teamwork | Research | Time Management | Communication Skills | Presentation Skills

Education

Projects

Smart Shopping Assistant

([Abdosamy255/SmartShoppingAssistant](#))

Tech Stack: Python, Random Forest, Web Scraping (Selenium/BeautifulSoup), Streamlit, APIs.

- **Engineered a real-time cross-platform search engine** that aggregates product data from Amazon, Noon, and Jumia using Web Scraping and API integration.
- **Developed an AI-powered pricing analysis feature** using a **Random Forest** model to classify product prices as "Reasonable" or "Overpriced" based on historical data.
- **Built an interactive user interface with Streamlit** to allow users to filter, compare products, and visualize insights seamlessly.
- **Deployed the application** on Streamlit Community Cloud, ensuring accessibility and smooth performance.

Uber-lyft-analysis

Tech Stack: Python, Deep Learning (LSTM, Autoencoders), Pandas, NumPy.

- **Data Pipeline:** Performed extensive data cleaning and preprocessing to handle missing values and outliers in complex ride-hailing datasets.
- **Deep Learning Implementation:** Developed a predictive model using **Long Short-Term Memory (LSTM)** networks to forecast ride prices with high accuracy.
- **Advanced Feature Engineering:** Utilized **Autoencoders** for dimensionality reduction and feature extraction to optimize model performance.

Certificates

Mastering C# | *Udemy*

Oct 2024

Mastered C# fundamentals, OOP concepts, LINQ, and asynchronous programming to build efficient applications.

Languages

Arabic – Native

English – Fluent

