Abanoub Nassif Barzi

Machine Learning Engineer

Cairo, Egypt | abanoub.nassif.an@gmail.com | +20 127 021 5937

GitHub: BeboNasif | LinkedIn: Abanoub Nassif

Summary

Machine Learning and Artificial Intelligence enthusiast with hands-on experience in building, training, and evaluating ML models. Strong background in data preprocessing, feature engineering, and model optimization, with practical experience gained through competitive projects and professional training. Passionate about applying ML techniques to solve real-world problems.

Education

Bachelor of Science in Computer and Information Sciences (Computer Science)

Ain Shams University 2023 – 2027 (Expected Graduation)

Work Experience & Internships

Machine Learning Engineer Intern

D.E.P.I. (Digital Egypt Pioneers Initiative) Nov 2025 –Present

- Participated in multiple machine learning projects focusing on data preprocessing, model training, and evaluation.
- Gained hands-on experience with ML tools and workflows through over 216 hours of practical training.
- Worked with supervised and unsupervised learning techniques in real project scenarios.

Projects

AI Problem-Solving Chatbot *((Summer Training Competition — 2025)*

- **Fine-tuned** a **pre-trained** language model to generate **Python** code that solves **programming problems**.
- Developed a **Streamlit** web application to deploy the **chatbot** for real-time user interaction.
- Implemented input parsing, code execution, and output display to provide a fully interactive coding assistant.
- Repository Link: AI_Code_Generator

Water Potability Prediction *(Summer Training Competition — 2024)*

- Developed an ML model to predict water potability based on chemical features.
- Achieved **85% accuracy** despite randomly distributed data.
- Ranked in the **Top 10** among participating teams.
- Repository Link: water potability | data analysis-model training85%

House Price Prediction *(ML Project — 2024)*

- Built a predictive model for real estate pricing using Python and advanced regression techniques.
- Cleaned and preprocessed high-dimensional data, handling outliers and categorical encoding for 80+ features.
- Applied ensemble learning methods (Random Forest, Gradient Boosting) to increase prediction accuracy.
- Repository Link: House-price

Skills

- **Technical Skills**
  - **Programming & Tools:** Python, NumPy, Pandas, scikit-learn, OpenCV, SQL
  - **Machine Learning & NLP:** Supervised Learning, Unsupervised Learning, Model Evaluation, Feature Engineering, Data Preprocessing, Natural Language Processing (NLP)
  - **Deep Learning:** Neural Network fundamentals, optimization basics
  - **Data Analysis:** Exploratory Data Analysis (EDA), data visualization
  - **Other Tools:** Git, GitHub, Linux
  - **Core Concepts:** Data Structures, Algorithms, Object-Oriented Programming
- **Soft Skills**
  - Problem Solving (Codeforces handle: **Bebo.**)
  - Team Collaboration
  - Analytical Thinking
  - Continuous Learning
- **Languages**
  - Arabic: Native
  - English: Very Good

Coursework & Certifications

- **Supervised Machine Learning** (Coursera, 2024):
  - Regression, classification, model evaluation techniques.
- **Advanced Learning Algorithms** (Coursera, 2025):
  - Neural networks, optimization, and tuning strategies.
- **Unsupervised Learning & Recommenders** (Coursera, 2025):
  - Clustering, dimensionality reduction, and recommendation systems.
- **Supervised Learning with scikit-learn** (DataCamp, 2025):
  - Practical ML pipelines and model validation.
- **IBM Machine Learning Professional Certificate** (Coursera, 2025):
  - End-to-end ML workflow

Extracurricular Activities

- **ACM ASCIS** — Trainee: Problem solving and algorithm sessions.
- **CYBERUS** — Member: Secure coding, Bug Hunting and technical workshops.
- **ApplAI** — ML & NLP Trainee: Hands-on training in machine learning fundamentals and natural language processing.
- **OSC** — Member: Participated in technical events and collaborative software activities.