

SELVIA NASSER BEKHIT

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EDUCATION

Faculty of Computers and Data Science, Alexandria University
B.Sc. in Data Science, CGPA: 3.73/4.0

Alexandria, Egypt
2023 – 2027

PROFESSIONAL EXPERIENCE

Machine Learning Engineer Trainee

06/2025 – 12/2025

Digital Egypt Pioneers Initiative – Microsoft Partnership

- Engineered supervised/unsupervised ML models using Python, scikit-learn, and pandas, achieving 85% accuracy on classification tasks with 10,000+ data points.
- Optimized data preprocessing pipelines, reducing model training time by 30% through feature engineering techniques.

IoT and Software Development Intern

06/2025 – 09/2025

Alexandria University

Alexandria, Egypt

- Architected ESP32-based IoT systems with 10+ sensors for real-time data acquisition and processing.
- Developed Flutter/Dart mobile application, improving user interaction efficiency by 25% through intuitive UI/UX design.

PROJECTS

Lumiverse – Smart IoT Ecosystem | Python, Flutter, MQTT, Supabase, NLP

2025

- Developed full-stack IoT solution with Flutter app handling 1,000+ daily MQTT messages for real-time device control.
- Integrated AI sentiment analysis using NLP, improving mood detection accuracy by 15% for adaptive ambient lighting.

Twitter Sentiment Analysis | Python, NLTK, scikit-learn, Flask, TF-IDF

2025

- Developed end-to-end NLP pipeline processing 20,000 tweets with regex cleaning, lemmatization, and TF-IDF vectorization.
- Achieved 78.1% accuracy using Logistic Regression, deployed REST API with Flask for real-time sentiment predictions.

Wine Quality Prediction System | Python, NumPy, scikit-learn, Pandas

2025

- Designed SVM and neural network models for wine quality classification, processing 4,000+ samples with 11 features.
- Achieved 88% precision and 85% F1-score through hyperparameter tuning, outperforming baselines by 10%.

Real Estate Price Prediction | Python, scikit-learn, Matplotlib, Seaborn

2024

- Built regression pipeline with feature selection, reducing RMSE by 20% on 5,000+ property records.
- Created 10+ interactive visualizations for exploratory data analysis and stakeholder presentations.

TECHNICAL SKILLS

Languages: Python, SQL, C++, Java, R, C

ML/DS Tools: scikit-learn, pandas, NumPy, Matplotlib, Seaborn, PyTorch, TensorFlow, Streamlit

Technologies: Git, Firebase, Supabase, Jupyter, Flutter, Dart, MQTT, REST APIs

EXTRACURRICULAR ACTIVITIES

IEEE AlexCSC Member

2024 – Present

- Participated in 10+ technical workshops on competitive programming, algorithms, and emerging technologies.

Science Education Volunteer, Planetarium Science Center

2024 – Present

Bibliotheca Alexandrina

Alexandria, Egypt

- Facilitated 5+ educational programs and interactive STEM workshops for 100+ youth.

ADDITIONAL INFORMATION

Skills: Problem Solving, Team Collaboration, Adaptability | **Languages:** Arabic (Native), English (Proficient)