Mohamed Elshoraky

Machine Learning Engineer

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PROFILE

I'm a machine learning enthusiast with a focus on tackling practical challenges, currently studying Electrical Engineering. I'm a fast learner, eager to take on complex problems and develop effective solutions. Alongside my studies, I have experience in web development, a strong interest in entrepreneurship, and a dedication to continuous learning and growth. Always ready to embrace new opportunities and expand my expertise.

EDUCATION

Bachelor of Computer Engineering

Kafr El-Sheikh University CGPA: 3.86 / 4.00

10/2022 - present Kafr El-Sheikh, Egypt

EXPERIENCE

Machine Learning Intern

Digital Egypt Pioneers Initiative (DEPI)

06/2024 - 12/2024Kafr El-Sheikh, Egypt

- Applied ML techniques (SVM, decision trees, neural networks) and performed data preprocessing and EDA on real-world datasets.
- Built deep learning models (GANs, GRUs, LSTMs) and utilized transfer learning with pre-trained models like BERT for NLP tasks.
- Experienced in leveraging MLflow for model tracking and deployment.
- Improved soft skills (teamwork, leadership, communication) and gained freelancing insights.

Entrepreneurship Program Participant

Innovegypt Program, ITIDA

01/2024 Kafr El-Sheikh, Egypt

- Completed 45-hour expert-led training on startup development: idea generation, prototyping, lean techniques.
- Developed and pitched a startup project; gained hands-on experience in problemsolving and business modeling.
- Collaborated in teams to brainstorm and refine innovative solutions, enhancing teamwork and communication.
- Acquired financial literacy, and marketing strategies from professionals.
- Learned to navigate the startup ecosystem, leveraging resources for growth.

PROJECTS

Sentiment Analysis Tool ∅

- Conducted data preprocessing, feature engineering, and exploratory data analysis (EDA) on text datasets.
- Built and evaluated multiple machine learning models (decision trees, SVM) and deep learning architectures
- Achieved the highest accuracy using the BERT model, leveraging transfer learning for optimal performance.
- Tracked and managed model performance using MLflow for reproducibility and scalability.
- Deployed the model using Flask and developed a user-friendly UI for seamless interaction

Telco Customer Churn Prediction *⊘*

- Analyzed telecom customer data to identify churn patterns through exploratory data analysis (EDA) and feature engineering.
- Built and evaluated machine learning models (KNN, Random Forest, Logistic Regression) and neural networks (TensorFlow, PyTorch).
- Delivered actionable insights to improve customer retention strategies and reduce churn rates.

Life Expectancy Prediction ∅

- Preprocessed WHO Life Expectancy dataset, handling missing values and encoding features.
- Developed and trained Linear Regression (scikit-learn) and Neural Network (PyTorch) models.
- Evaluated models using MSE and visualized predictions for actionable insights.

Portfolio Website 🔗

- Developed a modern, responsive personal portfolio website using HTML, CSS, and JavaScript.
- Implemented smooth scrolling navigation, video background, and a mobile-friendly hamburger menu.
- Displayed skills, services, and projects with visual elements like progress bars and icons.
- Integrated contact information, social media links, and a downloadable resume for easy accessibility

- Shaghalni شغلني Proposed a startup solving job access for programmers and engineers through an app
- Conducted comprehensive project planning, including BMC, personas, empathy maps, and prototypes, and presented a detailed roadmap for development, scalability, and user engagement strategies.
- Planned a 24-month roadmap for app development, course/job expansion, and profitability.

LANGUAGES

Arabic Native	• • • •	English Intermediate	• • • • •	
SKILLS				
AI & Data Science • Machine Learning	• Deep Learning	• Data Preparation	• Data Visualization	
Python • Basics • PyTorch	• NumPy • MatPlotLib	• Pandas • Seaborn	• Scikit-Learn	
Web Scraping				
MLOps • Git & GitHub	• MLflow	• Flask		
Software Fundamentals • C++ Basics • OOP	• Data Structure	• Algorithm	• problem Solving	
Assembly Basics				
Databases • Database Fundamentals	• SQL			
Web Development • HTML	• CSS	•JS		
Beyond the Code • Time Management	• Team Collaboration	• Hard Working	• Responsibility	