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   10/2022 – present
Kafr El-Sheikh University   Kafr El-Sheikh, Egypt
CGPA: 3.86 / 4.00

EXPERIENCE

Machine Learning Intern   06/2024 – 12/2024
Digital Egypt Pioneers Initiative (DEPI)   Kafr 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   01/2024
Innovegypt Program, ITIDA   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 problem-solving 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 (LSTM).
- 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 ● ● ● ● ●   **English** ● ● ● ○ ○
Native   Intermediate

SKILLS

AI & Data Science
- Machine Learning
- Deep Learning
- Data Preparation
- Data Visualization

Python
- Basics
- NumPy
- Pandas
- Scikit-Learn
- PyTorch
- MatPlotLib
- Seaborn

Web Scraping

MLOps
- Git & GitHub
- MLflow
- Flask

Software Fundamentals
- C++ Basics
- Data Structure
- Algorithm
- problem Solving
- OOP

Assembly Basics

Databases
- Database Fundamentals
- SQL

Web Development
- HTML
- CSS
- JS

Beyond the Code
- Time Management
- Team Collaboration
- Hard Working
- Responsibility