YASMIN EHAB ELKATTAN

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Career Objective

AI student with hands-on experience in intelligent systems, UI/UX design, and machine learning projects. Passionate about merging smart logic with creative design to build user-focused, reliable, and scalable digital solutions. Skilled in analyzing data, building ML models, and delivering AI-driven results with strong attention to detail and a problem-solving mindset, Proficient in Python, scikit-learn, pandas, and Streamlit, with experience in building and deploying end-to-end AI solutions.

Profile

I am an Artificial Intelligence student with practical experience in building intelligent systems and designing user-centric digital products. I bring a unique blend of analytical thinking and creative design, with skills in data analysis, machine learning, and UI/UX. Through academic and personal projects, I've developed a strong ability to solve problems and create solutions that are both functional and intuitive. I strive to keep learning and contributing to meaningful AI-driven innovations.

Education

Faculty of Artificial Intelligence, Menoufia University.   2023 – Expected 2027

B.Sc. in Intelligent Systems Engineering.   *Menoufia, Egypt*

Current Year: 3rd Year Student (2025–2026).

Experience

DEPI Internship   January 2025 - Present
AI & Data Science Track – Microsoft Machine Learning Engineer   *Menoufia, Egypt*

Participating in a comprehensive training track focused on Artificial Intelligence and Data Science using Microsoft technologies. Learning to build and deploy machine learning models on Microsoft Azure, and apply AI algorithms across multiple domains.
Topics covered:

- Prompt Engineering
- Python Programming & Data Science
- Machine Learning, Deep Learning, NLP, and Computer Vision
- Preprocessing, Visualization, and Statistical Foundations
- MLOps with MLflow and Hugging Face
- Azure AI Fundamentals & Azure AI Engineer Associate
  - Currently working on a Capstone Project using real-world datasets.

Creativa Innovation Hubs Internship   February 2025
AI & Machine Learning Program   *Menoufia, Egypt*

- Completed 35-hour training with hands-on experience in building machine learning models.
- Explored real-world AI applications and data-driven problem solving.
- Strengthened foundational knowledge in AI and fostered continuous learning habits.

Instant Software Solutions Course   November 2024 – February 2025
UI/UX Diploma   *Giza, Egypt*

- Gained hands-on experience in the full UI/UX process from research to high-fidelity prototyping.
- Learned how to conduct user interviews and extract meaningful insights.
- Practiced building empathy maps, user personas, and information architecture.
- Developed skills in wireframing, interactive prototyping, and user interface design.
- Improved ability to think from both user and business perspectives.
- Strengthened communication, critical thinking, and iterative design skills.

NTI Internship   August 2024 – September 2024

Graphic Design   *National Telecommunication Institute, Online*

- Completed a 120-hour intensive internship under the Ministry of Communications.
- Gained hands-on experience in graphic design principles and visual communication.
- Trained on Adobe tools including Illustrator, Photoshop, and InDesign.
- Improved design sense, layout structuring, and branding fundamentals.

Udemy Course   September 2024

Graphic Design Masterclass   *Online*

- Covered Photoshop, Illustrator, InDesign, branding, logo design, and design theory.
- Completed hands-on projects applying visual design principles.
- Built a solid foundation in creative tools and effective visual communication.

YLY – Ministry of Youth and Sports   Aug 2025 – Present
Social Media Committee Member (Selected)

- Recently selected to join the national YLY program by the Ministry of Youth and Sports.
- Preparing to work within the Social Media Committee to support youth engagement and outreach.
- Will participate in leadership, communication, and media strategy workshops.

Student Onboarding Volunteer – Faculty of Artificial Intelligence, Menoufia University   September 2024

- Participated in welcoming and assisting new students during the registration process. Helped guide students and streamline administrative tasks.

Class Leader – Faculty of Artificial Intelligence, Menoufia University   2023 – Present
Student Leadership Role

- Acted as a liaison between students and faculty, helping to organize academic updates and resolve student concerns.
- Led student groups during academic events and internal communications.
- Collaborated with peers and staff to support a positive learning environment.
- Strengthened leadership, communication, and team coordination skills.

Projects

Laptop Recommendation System   Faculty of AI, 2025
Data Analysis Project | Team Project

- Built a smart recommendation system to suggest laptops based on user needs.
- Performed data cleaning, preprocessing, feature selection, and model training using Random Forest.
- Designed an interactive UI using Streamlit for seamless user interaction.
- Evaluated the model performance using accuracy and confusion matrix.
- Tools used: Python, pandas, scikit-learn, Streamlit.

Interactive ML Analysis Tool Faculty of AI, 2025

Machine Learning Project | Team Project

- Built a Streamlit-based interactive application that allows users to upload any dataset and apply the full machine learning pipeline.
- Implemented preprocessing techniques including outlier detection (Isolation Forest, DBSCAN), imputation (Simple, KNN, Iterative), encoding (Label, One-Hot), and scaling (Standard, MinMax, PowerTransformer).
- Enabled users to perform classification, regression, and clustering using models like Random Forest, SVM, KNN, Logistic Regression, and KMeans.
- Integrated feature selection (RFE), dimensionality reduction (PCA), and SMOTE to handle imbalanced datasets.
- Designed dynamic visualizations for EDA, model performance (ROC curve, confusion matrix, regression plots), and feature importance.
- Tools used: Python, scikit-learn, pandas, seaborn, matplotlib, imblearn, Streamlit.

Image Processing Application Faculty of AI, 2025

Digital Image Processing Project | Team Project

- Developed a desktop GUI app using CustomTkinter to apply image processing operations.
- Implemented filters (Gaussian, Median), edge detection, histogram analysis, and color transformations.
- Divided the project into modules: GUI, operations, and main app logic for better code structure.
- Focused on teamwork, modularity, and real-time visualization of image changes.
- Tools used: Python, OpenCV, NumPy, CustomTkinter.

Geai Bleu Brand Identity Design September 2024

National Telecommunication Institute

- Developed complete brand identity inspired by the blue jay bird.
- Deliverables: Logo, color palette, and marketing materials.
- Tools: Adobe Photoshop, Illustrator, InDesign.

Geai Bleu – E-commerce UI/UX Case Study February 2025

Instant Software Solutions

Designed a modern, user-centered e-commerce experience for a luxury bag & accessories brand.
Key Tasks:

- Stakeholder & user interviews.
- Competitive analysis, personas, empathy maps.
- Information architecture, wireframes, high-fidelity UI.
- Interactive prototype for user testing.
  Tools: Figma, Adobe Photoshop, Illustrator.

Technical Skills

- **Programming**: Python (Pandas, NumPy, Scikit-learn, Streamlit, Matplotlib, Seaborn), SQL.
- **Machine Learning**: Supervised & Unsupervised Learning, Preprocessing, Model Evaluation, Feature Selection, Clustering, SMOTE.
- **Data Analysis & Visualization**: EDA, Correlation Analysis, ROC Curve, Confusion Matrix, Regression & Classification Metrics.
- **UI/UX Design**: Figma, Wireframing, Prototyping, Design Thinking, User Research, Empathy Mapping, Persona Creation.
- **Graphic Design**: Adobe Photoshop, Illustrator, InDesign.
- **Tools & Platforms**: Streamlit, Jupyter Notebook, Git, VS Code, Google Colab, Oracle Forms, MS Excel.
- **Others**: PCA, RFE, DBSCAN, Isolation Forest, SMOTE, PowerTransformer, Label & OneHot Encoding.

Soft Skills

- Leadership & Team Collaboration
- Critical Thinking & Problem Solving
- Effective Communication
- Empathy & User-Centered Thinking
- Time Management & Organization
- Adaptability & Continuous Learning

Languages

- **Arabic:** Native
- **English:** Very Good (Professional Working Proficiency)