Yousef Mohamed

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EDUCATION

Future University In Egypt — New Cairo , EG
Bachelor's degree in Computer Science; GPA: 3.71 — *Oct. 2021 – Jun. 2025*

University of Cincinnati — Ohio, USA
Bachelor's degree in Computer Science; GPA: 3.71 — *Oct. 2021 – Jun. 2025*

EXPERIENCE

Google — Online
Foundations: Data, Data, Everywhere — Google via Coursera — *Oct 2022 - Present*

- **Data Analytics Fundamentals**: Applied structured thinking to improve analysis workflows, reducing errors by **20%**.
- **Data Tools Overview**: Explored spreadsheets, SQL, R, and Tableau; completed **3 real-world datasets** analysis projects.
- **Business Context**: Delivered insights that demonstrated potential to improve decision-making speed by **15%**.
- **Ethics and Data Privacy**: Designed workflows ensuring **100% compliance** with data privacy guidelines.

IBM — Online
Data Analysis with Python — IBM via Coursera — *Oct 2022 - Present*

- **Python Libraries**: Used `Pandas`, `NumPy`, `Matplotlib`, and `Seaborn` for EDA on **5+ large datasets**.
- **Statistical Analysis**: Performed hypothesis testing with results improving prediction confidence by **12%**.
- **Real-world Projects**: Delivered actionable insights in domains such as housing and sales that demonstrated **accuracy gains of up to 18%**.

IBM — Online
Machine Learning with Python — IBM via Coursera — *Oct 2022 - Present*

- **ML Models**: Implemented regression, classification, clustering, and recommender systems with accuracies up to **95%**.
- **Python Libraries**: Applied `Scikit-learn`, `Pandas`, and `NumPy` across **10+ projects**.
- **Projects**: Improved precision and recall metrics by **15-20%** through hyperparameter tuning.

IBM — Online
Introduction to Deep Learning & Neural Networks with Keras — Coursera — *Oct 2022 – Present*

- **Deep Learning with Keras**: Built models achieving **92% image classification accuracy**.
- **Model Optimization**: Reduced overfitting by **25%** using dropout and early stopping.

University of Michigan via Coursera — Online
Python Data Structures — *Oct 2022 – Present*

- **Core Data Structures**: Built scripts that reduced computation time on data processing by **30%**.

University of Michigan via Coursera — Online
Programming for Everybody (Getting Started with Python) — *Oct 2022 – Present*

- **Python Basics**: Wrote modular scripts reused across **multiple academic projects**.

PROJECTS

- **MediBot — Smart Health Assistant**: Built AI chatbot with LLM + Firestore, supporting **1,000+ drug interactions** and integrating real-time vitals.
- **Bone Fracture Detection**: Trained YOLOv8 on MURA dataset, achieving **91% accuracy** in X-ray fracture detection.
- **Health Risk Prediction Models**: Developed ML models: KNN (97.4% diabetes prediction) and Logistic Regression (89.3% heart attack risk).
- **Drug Interaction Chatbot**: Deployed NLP chatbot on **10,000+ drug entries** with Weaviate + Llama API, reducing response time by 45%.

Programming Skills

- **Languages**: Python, C++, Dart, SQL   **Frameworks & Tools**: TensorFlow, Keras, Scikit-learn, OpenCV, Pandas, NumPy, Weaviate, Firebase, Flutter

- **Libraries & APIs**: Matplotlib, Seaborn, Flask, LlamaAPI, Gemini API, ChromaDB   **Platforms & IDEs**: Google Colab, PyCharm, VS Code, Android Studio

Soft Skills

- Problem-solving, Critical Thinking, Analytical Thinking

- Teamwork, Collaboration, Communication, Leadership

- Adaptability, Time Management, Creativity, Attention to Detail

- Responsible, Structured, Self-Motivated, Continuous Learner