Yousef Shindy *AI Engineer*

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⬢ Yousef Shindy   in Yousef Shindy

📇 Profile

AI & Data Science Master's graduate from the University of Ottawa, specializing in NLP, large language models, machine learning, and data science. Passionate about uncovering hidden patterns and insights to address challenges and enhance business operations. Eager to apply expertise to real-world problems, contribute to collaborative teams, and drive business improvement through innovative solutions.

🎓 Education

Master of Engineering in AI & Data Science   2023 – 2024
University of Ottawa

Bachelor of Communication & Computer Engineering   2016 – 2021
Mansoura University

💼 Professional Experience

AI R&D Engineer   May 2024 – present
EG-CERT
- Collected and preprocessed diverse malware datasets for model development.
- Conducted research and analysis to identify and extract relevant features from malware data.
- Engineered and selected significant features to enhance model accuracy and performance.
- Experimented with various machine learning models, optimizing for both malware obfuscation detection and clustering.
- Implemented clustering algorithms to group similar malware types, continuously refining the model based on feedback and new data.

📁 Projects

News Understanding 🔗
Microsoft
- Leveraged a combination of machine learning, natural language processing, and various large language models to develop a comprehensive news understanding system capable of fake news detection, bias identification, sentiment analysis, topic prediction, and news summarization. Deployed the system using a Flutter and Flask application, providing a user-friendly interface for real-time news analysis.

Book Recommendation Chatbot 🔗
- Developed an innovative book recommender chatbot that utilizes NLP and machine learning. By seamlessly integrating Dialogflow and Flask, the chatbot delivers personalized book suggestions derived from insightful summaries

RAG Chatbot
- Designed and deployed a Retrieval-Augmented Generation (RAG) system to retrieve documents and generate precise answers, leveraging Qdrant for vector embeddings and GROQ API for text generation.
- Built RESTful APIs with FastAPI to handle file uploads, text processing, and embedding workflows.
- Managed database interactions using MongoDB, optimizing performance with asynchronous operations.

📄 Certificates

Big Data Engineer 🔗
Issued by IBM

Predictive Analytics Modeler 🔗
Issued by IBM

Artificial Intelligence Analyst 🔗
Issued by IBM

Azure Fundamentals 🔗
Issued by Microsoft

Azure AI Fundamentals 🔗
Issued by Microsoft

🧠 Skills

Programming Languages
Python, SQL

Data Preprocessing and Manipulation
Numpy, Pandas, Math

Data Visualization
Matplotlib, Seaborn, Plotly

NLP
Regex, NLTK, Hugging Face, Transformers

Familiar with
Linux, Git & Github, Docker, OOP

🏠 Volunteering

IEEE Mansoura Student Branch   Feb 2019 – Oct 2019
Head of Public Relations Committee

IEEE Mansoura Student Branch   Feb 2018 – Feb 2019
Public Relations Volunteer

🌐 Languages

Arabic
Native

English
Fluent