



# Ahmed Mosalam

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# About Me

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I'm an AI Engineer in training with a strong foundation in Deep Learning, NLP, and the practical use of Large Language Models (LLMs). Currently a senior Data Science student at the Faculty of Artificial Intelligence, Minufiya University, I focus on building real-world AI solutions that integrate advanced language models into software applications.

My hands-on experience includes working with techniques like tokenization, TF-IDF, word embeddings, and model fine-tuning, with a particular interest in NLP pipelines and intelligent automation. I'm passionate about creating systems that are not just smart, but useful – optimized for performance and aligned with real user needs.

I'm actively expanding my skills through projects and research in Generative AI, and always looking for opportunities to apply my knowledge in meaningful ways. Whether it's solving practical problems or exploring new frontiers in AI, I'm committed to becoming a valuable contributor in this fast-evolving field.



# Education

## University of Menofia 2022–2026



Pursuing a Bachelor's degree in Artificial Intelligence with a strong academic foundation in Machine Learning, Deep Learning, and Natural Language Processing.

Developing hands-on experience through academic projects, research activities, and real-world problem solving using AI technologies.

Passionate about building intelligent systems and leveraging data to drive decision-making and innovation.

Actively exploring the latest trends in Large Language Models (LLMs), Computer Vision, and AI Ethics.

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# Skills

- Programming: Python,
- Machine Learning: Scikit-learn, XGBoost, SVM, Decision Trees
- **Deep Learning: TensorFlow, Keras, Neural Networks (CNNs, RNNs, LSTMs)**
- Natural Language Processing (NLP): Text Classification, TF-IDF, Word Embeddings, Transformers
- Data Analysis & Visualization: Pandas, NumPy, Matplotlib, Seaborn
- Soft Skills: Problem Solving, Team Collaboration, Self-Learning, Research-oriented Mindset



# WORK EXPERIENCE

## AI & IOT INTERN

ITI – INTERNET OF THINGS TRAINING PROGRAM

DEC 2024 – FEB 2025

- LEARNED CORE CONCEPTS OF IOT ARCHITECTURE, SENSOR INTEGRATION, AND EMBEDDED SYSTEMS USING ESP32
- DEVELOPED SMART IOT PROTOTYPES WITH REAL-TIME DATA MONITORING USING MICROPYTHON AND MQTT PROTOCOL
- BUILT MINI-PROJECTS THAT COMBINE AI MODELS WITH IOT DATA STREAMS FOR INTELLIGENT DECISION-MAKING
- COLLABORATED IN A TEAM ENVIRONMENT AND PRESENTED FINAL PROJECTS TO INDUSTRY MENTORS



## AI Projects Contributor (Academic)

Faculty of Artificial Intelligence, Menofia University

Present – 2022

- Developed a Fake News Detection system using Machine Learning (TF-IDF + SVM) and deployed it via Streamlit
- Built several NLP-based tools including text summarizers, translators, and chatbot assistants using Python
- Explored Deep Learning techniques such as LSTMs, CNNs, and Transformer architectures in course projects
- Applied data preprocessing, feature engineering, and evaluation metrics to real-world datasets



# Projects

## PDF Study Assistant with Chatbot

Python, LangChain, OpenAI API, Streamlit, FAISS

- Developed a smart assistant that reads, summarizes, and chats with PDF documents
- Used LLMs and vector search (FAISS) to answer questions from uploaded files
- Included summarization, translation, and question-answering features

## Smart Environment Monitoring System

ESP32, MicroPython, DHT22 Sensor, MQTT, NeoPixel

- Created an IoT-based system that reads environmental data (temperature & humidity)
- Displayed data using LEDs and sent it to a server via MQTT protocol
- Integrated simple decision logic to respond to sensor values

## Fake News Detection Web App

Python, Scikit-learn, Streamlit, TF-IDF, SVM

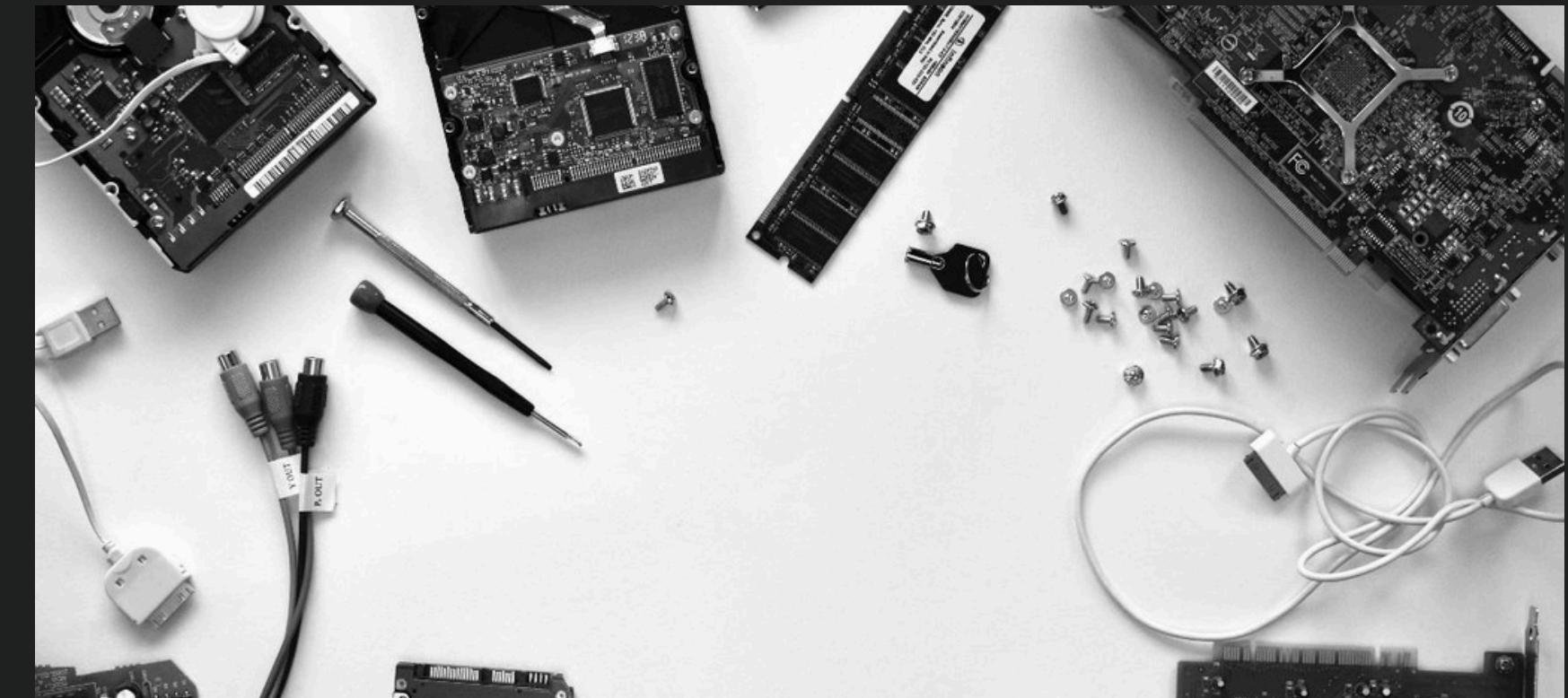
- Built a machine learning model to classify news articles as real or fake
- Applied text preprocessing and feature extraction using TF-IDF
- Deployed the model using Streamlit for an interactive user interface

## Text Classification and Topic Detection

Python, NLP, Scikit-learn

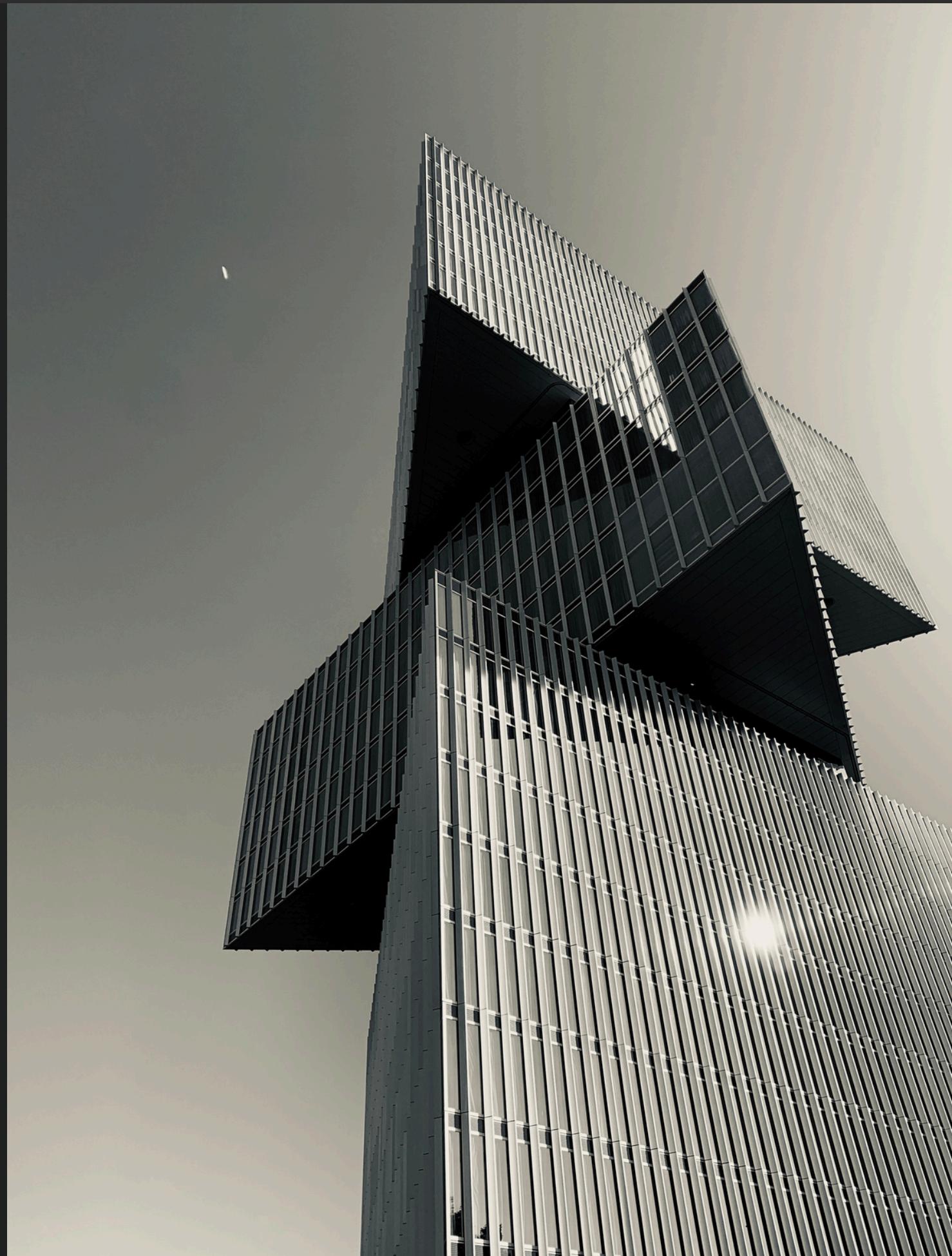
- Trained multiple models to classify text into categories
- Implemented preprocessing steps like tokenization, stemming, and vectorization
- Used SVM and Naive Bayes for classification and evaluation

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# Offered Services

- Building machine learning models for classification and prediction
- Developing NLP tools like text classification, summarization, and chatbots
- Creating AI-powered web apps using Streamlit
- Cleaning and preparing data for analysis and modeling
- Working with deep learning models using TensorFlow and Keras
- Connecting IoT devices with AI for smart systems
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# CONTACT MY

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# Thank You

Thank you for taking the time to review my portfolio.  
I am passionate about Artificial Intelligence and always eager to learn and grow.  
Feel free to reach out if you're interested in collaborating or have any questions.

