Ahmed Khattab

AI Engineer

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# SUMMARY

Enthusiastic AI Engineer with a solid academic background and hands-on experience in advancing technological innovation. Recently earned a B.Sc. in Artificial Intelligence from the Egyptian Russian University, gaining in-depth knowledge of advanced AI concepts through practical projects and coursework. Skilled in data analysis, algorithm development, and machine learning, with a strong aptitude for effective communication and teamwork.

# EDUCATION

* **Bachelor of Science in Artificial Intelligence**
* **Faculty of Artificial Intelligence**, [Egyptian Russian University]

- **C-GPA: 3.80**

* Ranked first in my class during previous years.

# EXPERIENCE

## Instructor

Digital Egypt Cubs Program

* Delivered courses on AI, mobile app development, and web development, equipping students with practical skills in these domains.
* Mentored students on projects, enhancing their technical knowledge and problem-solving abilities. 07/2024

## AI Intern

* Prodigy Info Tech

Collaborated with senior developers to create AI-powered applications, contributing to the integration of cutting- edge AI solutions.

01/2024 – 03/2024

-Impact Zewail City

Engaged in AI research projects, focusing on the development and deployment of machine learning models. 02/2023 – 10/2023

## Unsupervised Learning Foundation

ElectroPi

* Conducted unsupervised learning projects, utilizing clustering algorithms to uncover meaningful patterns in complex datasets.

09/2023 – 10/2023

## Machine Learning – Artificial Intelligence

Information Technology Institute (iTi)

* Designed and implemented machine learning models to solve real-world challenges, emphasizing model accuracy and optimization.

07/2023 – 09/2023

## Exploratory Data Analysis

ElectroPi

* Carried out data preprocessing, visualization, and feature engineering to extract actionable insights from raw data. 07/2023 – 09/2023

## Introduction to Natural Language Processing

Analytics Vidhya

* Developed NLP models for tasks such as sentiment analysis and text classification, applying advanced text processing techniques.

03/2023 – 05/2023

# PROJECTS

## [Social Media Platform with AI Integration](https://github.com/Ahmed205096/Full-Social-Media-App) (Graduation Project) ⁘

**Technologies**: React.js, MongoDB, Express, AI

**Description**: Developed a full-featured social media platform incorporating AI for enhanced user experience. Implemented a recommendation system using cosine similarity to suggest relevant content. Integrated a customized chatbot powered by the Gemini API, tailored to interact based on the platform’s data.

## [Arabic Text Summarization using Pre-trained Models (mt5, t5, Bert)](https://github.com/Ahmed205096/Arabic-Text-Summarization) ⁘ Technologies: mt5, t5, Bert

**Description**: Created models to summarize Arabic and English texts using advanced pre-trained models. The models were fine-tuned on extensive datasets, ensuring high-quality summaries and efficient performance.

## [Offensive Text Detection using](https://github.com/Ahmed205096/Detecting-OffensiveVSnormal-Text) ⁘

1. **Bert Model**

**Technologies:** Pre-trained Bert model

**Description**: Trained a Bert model on a dataset of offensive and non-offensive texts, achieving high accuracy in detecting offensive content. Utilized Twitter data to ensure real-world applicability.

## Deep Learning with RNN and LSTM (DL model)

**Description**: Implemented RNNs with LSTM units for sequence prediction tasks, effectively capturing long-term dependencies and improving accuracy in text classification.

## Decision Tree Classifier for Machine Learning (ML model)

**Description**: Applied a Decision Tree Classifier on large datasets, demonstrating its capability in making accurate predictions and distinguishing between different types of texts.

## [Signature Verification using CNN](https://github.com/Ahmed205096/signature-verification-using-CNN) ⁘

**Technologies**: Convolutional Neural Networks (CNN)

**Description**: Developed a CNN-based system for signature verification, trained on a substantial dataset of genuine and forged signatures. Achieved high accuracy, showcasing the model's robustness in distinguishing between authentic and fake signatures.

## [Speaker Verification using ResNet](https://github.com/Ahmed205096/Speaker-Verification-System-UsingResNet) ⁘

**Technologies**: ResNet

**Description**: Built a speaker verification system using ResNet architecture. Trained on extensive voice data, the model accurately identified speakers, highlighting ResNet's efficiency in processing complex auditory information.

## Neural Network from Scratch

**Description**: Constructed a neural network from the ground up using Python and NumPy, demonstrating a comprehensive understanding of neural network principles and their implementation.

# CERTIFICATIONS

* Introduction to NLP (Analytics Vidhya )

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- Machine Learning – Artificial Intelligence(iTi)

- AI Intern (Prodigy info tech)

- AI Intern (Impact Zewail City )

* Machine Learning – Artificial Intelligence(iTi)
* AI Intern (Prodigy info tech)
* AI Intern **(**Impact Zewail City**)**

# TECHNICAL SKILLS

* Meta React.js
* Front End from ITI
* Boord React.js
* JS from Maharah Tech
* **Frameworks & Tools:** TensorFlow, PyTorch, scikit-learn, React.js, MongoDB, Node.js, PyCaret
* **Programming Languages:** Python, JavaScript, TypeScript, C++, Java
* **Libraries:** NumPy, Pandas, Matplotlib, NLTK
* **Development Tools:** Git, GitHub, VS Code, npm
* **Concepts:** Machine Learning, Deep Learning, NLP, OOP, Data Structures, Algorithms
* **Other Skills:** Fetch API, Axios, Redux, Redux Tool-kit, HTML, CSS, Time Management, Research, Problem Solving, Attention to Detail, Teamwork.

# SOFT SKILLS AND OTHER RELEVANT INFORMATION

* + **Problem Solving:** Adept at analyzing complex problems and developing effective solutions.
  + **Time Management:** Efficiently manages time to meet project deadlines and objectives.
  + **Attention to Detail:** Pays close attention to detail, ensuring high-quality outcomes.
  + **Teamwork:** Strong team player with excellent collaboration and communication skills.
  + **Research:** Capable of conducting thorough research to stay updated with the latest AI trends and technologies.