Mohamed Nasser

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CAREER OBJECTIVE

Dedicated to continuous learning and professional growth, I aim to become a skillful and unique machine learning engineer specializing in Natural Language Processing (NLP). Leveraging hands-on experience from projects such as building a ChatGPT clone, multilingual Named Entity Recognition (NER), and credit card fraud detection, I aspire to design and implement innovative AI-driven solutions. By combining my technical expertise, attention to detail, and analytical thinking, I strive to contribute to impactful projects that empower organizations to make data-driven decisions and achieve measurable improvements while advancing expertise in machine learning and business intelligence.

EDUCATION

Bachelor of Engineering in Computer and Hardware Engineering, *Misr University for Science and Technology (MUST), Faculty of Engineering* 2018/08 – 2023/07

With a GPA of 3.6 (A) and a Graduation project A+

COURSES

Practical GenAI
(Udemy Coursat.ai Dr. Ahmad ElSallab)

Multimodal GenAI RAG AppsPractical GenAI
(Udemy Coursat.ai Dr. Ahmad ElSallab)

Machine Learning Specialization (DeepLearning.AI)

Sequence Models (DeepLearning.AI)

Object-Oriented Programming in Python
(datacamp)

AWS Cloud Practitioner (CLF-C02)
(datacamp)

SQL Fundamentals
(datacamp)

SKILLS

Programming Languages
- Python, C++

Data Science & Statistics
- Data Visualization (Matplotlib, Seaborn, Pandas)
- Statistical Analysis, Data Preprocessing

Deep Learning Frameworks
- TensorFlow, PyTorch

Machine Learning & AI
- Large Language Models (LLMs), Hugging Face
- Feature Engineering, Model Evaluation, Hyperparameter Tuning

Development Tools
- Git, Jupyter Notebooks

NLP Libraries & Frameworks
- SpaCy
- NLTK
- Hugging Face Transformers

PROJECTS

Chat gpt clone with streamlit
- Developed and deployed a ChatGPT-like application using the OpenAI API and Streamlit. Tailored the chatbot to assist medical students with biochemistry questions. Features include multi-model selection and a history management system to enhance user experience.

Multi-lingual NER detection
- Built and deployed a multilingual NER system supporting English, French, and Arabic. Designed a custom model head to adapt the solution for specific business needs, leveraging zero-shot transfer learning techniques.

Sentiment analysis
- Conducted an in-depth analysis to identify the optimal transformer model for sentiment classification. Selected DistilBERT for its balance of performance and deployment efficiency compared to BERT.

NER on kaggle data named entity-annotated-corpus
- Applied a bidirectional LSTM model to perform NER on a named entity-annotated corpus. Incorporated Part-of-Speech (POS) tagging to improve model accuracy and entity recognition.

Credit card fraud detection (graduation project)
- Explored and evaluated various machine learning models to detect fraudulent transactions. Gained insights into model performance and the application of machine learning to financial datasets.

House prediction on kaggle (Top-3%)
- Achieved a top 3% ranking in a Kaggle competition by building an ensemble regression model. Focused on extensive feature engineering to enhance prediction accuracy.

Spam email detection
- Developed a spam email classification system, achieving high performance with a Precision of 98% and Recall of 97%.

PROFESSIONAL EXPERIENCE

Internship – SHai for AI
2023/01 – 2023/04
- Gained hands-on experience in data preprocessing techniques, including cleaning, normalization, and feature engineering, to prepare datasets for analysis.
- Explored and implemented classical machine learning models, developing a strong understanding of their applications and limitations.
- Acquired foundational knowledge in deep learning, including neural network architecture and basic implementation techniques.
- Collaborated with a team of professionals to apply theoretical concepts to real-world data challenges, enhancing problem-solving skills.