YOUSSEF EMAM

Backend & AI Engineer (Laravel & NLP/ML)

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SUMMARY

NLP & Machine Learning Engineer with practical experience in building and fine-tuning AI models, especially for Arabic NLP. Strong background in ML, DL, and text analytics. Skilled Laravel developer since 2019 with freelance experience delivering production-ready backend solutions and APIs. Focused on developing efficient AI systems and integrating ML models into real-world applications.

EXPERIENCE

NLP Intern | Elevvo Pathways Company | Sep 2025 – Oct 2025

- Built sentiment analysis models for Arabic and English datasets using Transformer architectures.

- Designed a Fake News Detection pipeline with TF-IDF and Logistic Regression.

- Implemented BiLSTM-CRF for Named Entity Recognition (NER).

- Applied LDA and BERTopic for topic modeling and text clustering.

- Fine-tuned mT5 model for abstractive text summarization tasks.

- Utilized GloVe and Gensim vector embeddings for semantic similarity analysis.

AI Developer (Volunteer) | Data Street | Oct 2025 – Present

- Developing AI-driven modules and NLP components for internal automation systems.

- Contributing to data processing pipelines and improving ML model efficiency.

EDUCATION

Pharos University in Alexandria

B.Sc. in Linguistics Engineering (NLP Specialization) – Currently Second-Year Student

GPA: 3.3 / 4.0

CERTIFICATIONS

- AI Developer – IBM Professional Certificate

- NLP Advanced Program – Neurotech Academy (Ongoing)

- Machine Learning Specialization – Andrew Ng, Coursera

- Deep Learning & Transformers for NLP – Hugging Face (Self-study)

TECHNICAL SKILLS

• Programming: Python, PHP, SQL

- Machine Learning: scikit-learn, Keras, PyTorch, MLflow

- NLP & Vectorization: Hugging Face Transformers, spaCy, CAMeL Tools, NLTK, GloVe, Gensim, RAG, Fine-tuning

- Data Tools: Pandas, NumPy, Matplotlib, Jupyter

- Version Control: Git, GitHub

- Languages: Arabic (Native), English (Fluent)

PROJECTS

- CV Scanner (Smart Resume Analyzer): Developed an intelligent ATS-compatible system that analyzes resumes, detects missing skills, and matches candidates using vector embeddings and ML classification.

- Taki (AI Creative Assistant): Designed an NLP-powered assistant for text correction, summarization, and automated insights using Transformer models.