

MOHAMED FARES

AI ENGINEER

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SUMMARY

Results-driven AI/ML Engineer with hands-on experience in building, deploying, and optimizing machine learning models and AI-driven solutions. Strong background in data analysis, NLP, computer vision, and MLOps, with a passion for applying AI to solve real-world business challenges. Proven ability to lead projects, collaborate across teams, and deliver measurable results.

PROFESSIONAL EXPERIENCE

AI Engineer | Hive Tech

Jul 2025 – Present

- Designed and optimized prompts to improve LLM accuracy, consistency, and usability across business applications.
- Collaborated with cross-functional teams to integrate LLM-powered features into client-facing solutions.
- Built and maintained scalable AI software modules with clean, maintainable code.
- Researched and tested advanced prompting techniques to drive business automation and innovation.
- Supported deployment and monitoring of LLM-based applications in production environments.

Research Assistant | Badia University (Part-time)

Jul 2024 – Sep 2024

- Before: Conducted research on improving AI model performance through Prompt Engineering.
- After: Conducted research on advanced Prompt Engineering strategies, achieving +12% improvement in LLM response accuracy as part of a research paper.

Aug 2024 – Oct 2024

AI Engineer Intern | Esaal

- Developed AI-powered chatbots to enhance real-time problem-solving and improve user experience.
- Contributed to API integrations for NLP-based business process optimization.
- Strengthened teamwork and communication skills in a fast-paced environment.

AI Engineer Intern | CODSOFT

Jul 2024 – Aug 2024

- Designed and deployed interactive AI/ML applications with real-time predictions.
- Optimized ML models for performance, achieving higher accuracy and reduced latency.
- Collaborated with teams to translate business requirements into AI solutions.

Machine Learning Engineer Intern | Bharat

Jun 2024 – Jul 2024

- Executed ML projects (e.g., House Price Prediction) with a focus on data preprocessing and accuracy.
- Established testing protocols ensuring reliable algorithm performance.
- Gained experience in model deployment and monitoring.

AI Engineering Training | AMIT

Sep 2023 – Feb 2024

- Completed intensive training in data science, visualization, and statistical modeling.
- Applied MLOps practices for efficient model deployment and lifecycle management.

- Delivered workshops on Python & Machine Learning fundamentals.
- Mentored students in AI/ML projects, improving their practical skills.
- Developed training content and interactive materials for diverse student groups.

PROJECTS

AI-Based Examination Monitoring System (SmaTest)

Final Year Project

- Built an AI system using YOLOv5, TensorFlow, OpenCV to monitor students via webcam.
- Implemented face & eye tracking, sound detection, and cheating prevention features.
- Achieved 1st place in college competition.

Chatbot with LLM (Healthcare Assistant)

- Built a medical chatbot using Gemini API, Google Cloud TTS/STT, and Streamlit.
- Integrated speech, text, and image processing for enhanced interaction.

Sales Analytics Dashboard (Power BI)

- Created a business intelligence dashboard to analyze sales, costs, and profits.
- Used data modeling & DAX for KPIs, enabling data-driven decision-making.

Automated Movie Review Sentiment Analysis

- Python, NLTK, TensorFlow

Semantic Search with NLP

- TF-IDF + KNN for similarity search

Named Entity Recognition (NER)

- spaCy model with evaluation metrics

SKILLS

- **Programming & Frameworks:** Python, C++, Java, JavaScript, SQL, Flask, Django
- **Data Science & ML:** NumPy, Pandas, Scikit-learn, TensorFlow, PyTorch, NLTK, SpaCy, YOLO, OpenCV, Hugging Face
- **Data Visualization & BI:** Power BI, Excel, Matplotlib, Seaborn
- **MLOps & Tools:** Git, Streamlit, Flask, Google Cloud, API Integration
- **Specialties:** NLP, LLMs, Prompt Engineering, Computer Vision, Model Deployment

EDUCATION

B.Sc. in Computer Science | Menoufia University

Sep 2018 – May2022

- Graduation Project: AI-Based Exam Monitoring System – Excellent, 1st Place
- GPA: Very Good (2.9/4.0)

ADDITIONAL INFORMATION

- **Languages:** Arabic: Native , English: (Upper Intermediate), German: A1 (Beginner).