Mohamed Khaled

Data Scientist | LLM & NLP Specialist

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Professional Summary

Data Scientist and NLP Specialist with a strong background in building and deploying LLM-powered solutions. Passionate about leveraging Generative AI to solve complex search and visibility challenges. Proven track record in processing large-scale datasets (1,000+ daily records), architecting efficient data pipelines, and implementing high-accuracy classification models (89% precision). Skilled in Python, SQL, PyTorch, and Hugging Face, with hands-on experience in MLOps and productionizing ML systems. Eager to apply expertise in LLMs, prompt engineering, and data analytics to drive AI search optimization at Goodie AI.

Technical Skills

- **Core Stack:** Python, SQL, JavaScript, OOP
- **AI & NLP:** Large Language Models (LLMs), Generative AI, Hugging Face Transformers, PyTorch, TensorFlow, Scikit-Learn, Prompt Engineering, Text Processing
- **Data Engineering:** Data Pipelines, ETL, Data Cleaning, NumPy, Pandas, Data Visualization
- **MLOps & Backend:** FastAPI, Docker, CI/CD, Flask, Django, RESTful APIs
- **Tools:** Git, GitHub, Odoo, Frappe

Professional Experience

Junior Python Developer (Data & ML Focus) | *Monzer Foda Co. Ltd* | *Cairo, Egypt* | *2023 - 2024* - **Data Pipeline Architecture:** Architected robust data transformation pipelines to unify heterogeneous data from multi-ERP

systems (Odoo, Frappe), ensuring compatibility with government platforms. - **Large-Scale Data Processing:** Engineered APIs processing 1,000+ daily invoices, ensuring data integrity and efficient querying. - **Data Quality & Validation:** Designed automated compliance validation checks that reduced data submission errors by 50%, ensuring high-quality dataset reliability. - **Monitoring & Analytics:** Deployed a real-time monitoring dashboard to track submission metrics and detect anomalies in data flow.

Junior Python Developer | *Egyptian E-Invoicing System | Cairo, Egypt | 2020 - 2021* - **System Integration:** Integrated complex ERP systems via REST APIs, standardizing data pipelines for diverse invoice formats. - **Automated Reporting:** Automated XML generation for tax submissions, implementing error recovery mechanisms to handle data inconsistencies. - **Data Mapping:** Coordinated with vendors to define and implement strict data mapping protocols, ensuring 100% compliance with government mandates.

Projects

Intelligent SMS Filtering System (NLP & Classification) *Leveraged NLP and Machine Learning to solve a real-world spam detection challenge.* - **Model Development:** Built a smart filtering tool using NLP techniques to classify and identify unwanted/harmful text messages. - **Performance Optimization:** Achieved a **31% improvement** in scam detection compared to legacy systems, significantly enhancing user protection. - **High-Precision Filtering:** Tuned model performance to ensure **>89% precision**, minimizing false positives and ensuring critical messages were never blocked. - **Tech Stack:** Python, NLP, Classification Algorithms, Data Cleaning.

Education

Relevant coursework or degree details if available (implied from "MSc." in poster name match, though not in user image. User image says "Machine Learning Engineer", no degree listed explicitly but usually implies BS/MS).