Mohamed Awadalla

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Education

Long Island University-Honors College   Brooklyn, NY
Bachelor of Science in Computer Science   Anticipated 2026
Honors: Dean's List, Dean Scholar

Skills

- **AI & Machine Learning:** Natural Language Processing (NLP), Neural Networks, PyTorch, Large Language Models (LLMs), Fine-tuning & Evaluating LLMs, Prompt Engineering, Machine Learning Fundamentals, Data Analysis & Visualization, Process Automation (Python), Scikit-learn, Pandas, NumPy
- **Languages & Databases:** Python, C++, MySQL
- **Developer Tools & Platforms:** Operating Systems (Windows, MacOS, Linux), Version Control (Git), AI Coding Agents, Full-Stack Development, VMware, Splunk, ELK Stack
- **Product & Communication:** Rapid Prototyping, Cross-Functional Collaboration, Technical Communication, MS Office Suite, Project Coordination, Time Management

Relevant Experience

New York City Emergency Management - Brooklyn, NY
Legal intern - Development   June 2025 – Present
- Developed a full-stack web application for a Disaster Law Symposium, enabling 1000+ participants to register and attend both online and in-person sessions, demonstrating scalable system design and user experience optimization
- Built an intelligent Document Processing Suite that automated the sorting and renaming of 16,000+ procurement contracts and supporting documents using Python, implementing machine learning-based document classification, OCR technology for scanned documents, and intelligent vendor name standardization
- Engineered automated workflow solutions that reduced manual contract processing time by implementing smart document classification (MSA, SOW, NDA, Purchase Orders) and metadata extraction for large-scale document management systems

Long Island University Brooklyn - Brooklyn, NY
Honors College Assistant   Sep 2022 - Present
- Led engaging campus tours for 100+ prospective students and their families, effectively showcasing university programs and campus life while providing exceptional support throughout the admissions process
- Assist in coordinating and executing 15+ Honors College events annually, programs, and activities, ensuring an engaging community for 200+ students and leveraging data-driven insights to optimize event planning and student engagement strategies
- Collaborate with staff to manage communications and outreach efforts across 5+ digital platforms, enhancing visibility and engagement through promotional materials, and automated workflow solutions to streamline administrative processes

Projects

NBA Analytics Conversational AI - Fine-tuned LLaMA 3.2
- Fine-tuned LLaMA 3.2 model using LoRA techniques to create a specialized New York Knicks knowledge base, implementing custom tokenization and data preprocessing pipelines for sports analytics applications
- Developed automated data collection system for NBA Twitter content, creating text cleaning algorithms and sentiment analysis tools to extract meaningful basketball insights and performance metrics from social media data

Automated Log Analysis
- Developed Python-based data processing pipeline for parsing and analyzing large-scale security logs, implementing statistical analysis and anomaly detection algorithms for real-time threat intelligence
- Integrated Splunk and ELK Stack for distributed data processing, creating automated alert systems that reduced incident response time by 40% through intelligent pattern recognition
- Built comprehensive monitoring dashboard with data visualization components, enabling real-time analysis of system performance metrics and security event correlation

Stock Price Prediction Neural Network
- Developed LSTM neural network using PyTorch to predict stock price movements, implementing time series analysis and feature engineering techniques for financial market data processing
- Built comprehensive data pipeline integrating multiple financial APIs, creating automated preprocessing workflows for handling missing data, normalization, and sequential feature extraction
- Achieved predictive accuracy improvements through hyperparameter optimization and ensemble methods, demonstrating practical application of deep learning for financial forecasting and risk analysis