Mohamed Ehab

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Education

Faculty of Computer and Data Science **Fall 2023 – Present**
University of Alexandria
Major in Intelligent Systems

Independent Coursework:

Machine Learning Specialization by Andrew Ng, Harvard CS50 Full Computer Science University Course, Deep Learning for Natural Language Processing udemy

Projects

AI Chest X-Ray Detection

AI-Powered Chest X-Ray Analysis System Developed a desktop application for automated chest X-ray image analysis using Python and PyQt5. Implemented CNN deep learning models for accurate detection and classification of chest conditions. Created features for image upload, real-time analysis, and PDF report generation for medical practitioners.

GitHub: AI Chest X-Ray Detection Project

University Management System

Developed a university management system using Java and SQL with a GUI to manage student records, grades, attendance, and courses. The system provides an intuitive interface for users to interact with the database and perform administrative tasks.

GitHub: University Management System Project

Arabic Text Summarization

Developed end-to-end summarization pipeline for dialectal Arabic text using AraBART. Implemented data preprocessing, fine-tuning, training orchestration, and inference using Python and Hugging Face Transformers. Built a Streamlit web app for real-time text summarization with modular architecture and configurable YAML-based settings. Enabled logging, dataset handling, and model deployment for practical educational use cases.

GitHub: Arabic Text Summarization Project

Library Management System

Developed Developed a comprehensive web-based library management system using Node.js, Express, and SQL. Implemented user authentication, book catalog management, borrowing/reservation tracking, and profile management. Designed intuitive dashboards for both users and admins with search, filtering, and analytics features.

GitHub: Library Management System Project

Technologies

- **Programming Languages:** C++, C , JAVA, R, Python
- **Tools and Technologies:** scikit-learn, TensorFlow , PyTorch ,Transformers ,LLM ,VLM, Fine Tuning , Transfer Learning ,Seq2Seq ,NLP

Skills

- **Contributed to ECPC preparation and team problem-solving sessions**
- **Strong Algorithmic knowledge and problem solving skills**
- **Team Leadership and Community Building**
- **Effective Teamwork,Communication Skills**