Fadel Danab

Software Engineer | Full Stack Developer| Machine Learning Practitioner

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Summary

Machine Learning Engineer with Software Engineering Skills ,Passionate about leveraging machine learning to build AI-powered applications and enhance user experiences. Skilled in both machine learning model development and full-stack software engineering, with experience in designing and deploying advanced machine learning models, developing robust front-end and back-end systems, and optimizing web applications for scalability and efficiency. Adept at solving complex problems by integrating AI into technology solutions to improve decision-making. Driven by a desire to contribute to innovative, data-driven technologies and make an impact through real-world applications.

EDUCATION

Lebanese international university (Liu)   Oct 2020 - Jan 2024

Bachelor's degree in computer science

Cumulative GPA: 3.49/4.00 | Dean's Honor List (2023 – 2024)

- Recognized for academic excellence and active contributions to departmental initiatives.

PROJECTS

Brain Tumor Detection Using Deep Learning

Senior Project | Lebanese International University

- **Developed and deployed** a convolutional neural network (CNN)-based deep learning model to classify three types of brain tumors in medical imaging.

- **Achieved an accuracy of 98%**, demonstrating high performance in classifying tumor types with minimal errors.

- **Applied advanced data preprocessing techniques**, including image normalization, resizing, and augmentation, to improve model robustness and generalization across diverse datasets.

- **Implemented feature extraction methods** to capture key visual patterns from MRI images, enhancing classification performance and model interpretability.

- **Recognized by faculty** as one of the best senior projects for its quality, innovation, and practical application in the medical field.

Key Competencies

Python Programming - Data Cleaning & Preprocessing - Exploratory Data Analysis (EDA) - **Supervised & Unsupervised Machine Learning** - Data Visualization - SQL & Database Management - Feature Engineering - Model Evaluation & Performance Metrics - Statistical Analysis - Problem-Solving & Critical Thinking

Professional Experience

Freelance Web Developer | Remote   Apr. 2023 – Jan 2024

- Full-Stack Development: Designed responsive web applications with optimized front-end interfaces and robust back-end APIs.
- AI-Integrated Solutions: Built AI-powered platforms incorporating machine learning models to enhance user experience and decision-making.
- Business Alignment: Collaborated with stakeholders to align technology solutions with business objectives, driving operational efficiency.

Courses and Training

- ➢ **IBM Machine Learning Professional Certificate**
  Coursera, 2024
  - o **Deep Learning and Reinforcement Learning** (Dec 2024, 32 hrs.)
  - o **Unsupervised Machine Learning** (October 2024, 23 hrs.)
  - o **Supervised Machine Learning: Classification** (September 2024, 24 hrs.)
  - o **Supervised Machine Learning: Regression** (August 2024, 20 hrs.)
  - o **Exploratory Data Analysis for Machine Learning** (August 2024, 14 hrs.)
  - o **Delivering Quality Work with Agility** (July 2024, 1 hrs.)

- ➢ **AI Integration Workshop | Hariri Foundation for Sustainable Human Development**   June 2024

- ➢ **Machine Learning & AI Workshop | Oreyeon Company**   July 2024
  - o Gained hands-on experience in computer vision, machine learning, and cloud computing.
  - o Worked with Amazon Web Services (AWS) to deploy AI-powered applications and optimize model performance.

ADDITIONAL

Technical Skills:
- **Programming Languages:** Python, JavaScript, PHP
- **Machine Learning & AI:** Supervised & Unsupervised Learning, Deep Learning, TensorFlow, Keras
- **Web Development:** HTML, CSS, JavaScript, ReactJS
- **Back-End Development:** PHP, SQL, NodeJS, API development, **RESTful Services**, **Database Management**
- **Database Management:** MySQL

Soft Skills: Team Leadership, Problem-solving, Teamwork, Adaptability, Communication, Critical Thinking, Time Management

Languages: Arabic (Mother Tongue), English (Fluent)