Ali Nikoo

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HIGHLIGHTS

- Experienced in using Python for developing machine learning models, with hands-on expertise in libraries such as TensorFlow, Keras, and scikit-learn to implement and optimize algorithms.
- Demonstrated ability to analyze complex datasets, extract meaningful insights, and develop data driven solutions, contributing to successful project outcomes during internship experiences.
- Proven track record of working effectively in team environments, collaborating with different teams to deliver machine learning solutions, and communicating technical concepts clearly to non-technical stakeholders.

SKILLS

Image processing, Machine Learning algorithms, Deep learning algorithms, CNNs, Data preprocessing, CAD, Computer vision, Effective Communication, Teamwork, Problem-solving, Adaptability, Critical thinking, Time management, Creativity, Emotional intelligence, and Detailed-oriented.

TOOLS

Python, TensorFlow, AWS, Git., Mimics, SolidWorks, V7 Darwin, WEKA

EXPERIENCE

Freelance ML/AI Developer

Upwork, Vancouver, BC **November 2024 – Present**

- Develop and deployed custom machine learning models for clients across various industries, including predictive analytics, natural language processing, and computer vision, ensuring high-quality solutions tailored to client needs.
- Assist businesses in automating workflows and improving decision-making by integrating AI-driven models into existing software systems, optimizing processes and enhancing overall performance.
- Collaborated closely with clients to identify business challenges and develop end-to-end AI solutions, from data preprocessing and feature engineering to model selection, training, and deployment, ensuring scalability and performance across different platforms.

Junior Data Scientist

Dade Pardaz Caspian Oxin, Esfahan, Iran **April 2024 – Present**

- Developed an interactive medical chatbot using natural language processing to provide instant medical information, enhancing user engagement and accessibility.
- Integrated machine learning algorithms into the backend to improve response accuracy and relevance for user queries, ensuring a seamless experience.
- Conducted testing and user feedback sessions to refine functionality and interface, resulting in a user-friendly application for addressing common medical inquiries.

Data Science Intern

Dade Pardaz Caspian Oxin, Esfahan, Iran   **January 2024 – April 2024**

- Developed a machine learning model to classify liver disease stages, improving prediction accuracy and diagnostic efficiency.
- Applied feature selection techniques to enhance model performance and interpretability while ensuring best practices in data handling.
- Collaborated with a multidisciplinary team to validate model results, providing actionable insights for clinical decision-making in liver disease management.

Research Assistant

University of Ottawa, Ottawa, ON   **October 2021 – December 2022**

- Assisted in planning and executing experiments to optimize exoskeleton performance, focusing on gait mechanics through data collection and experimental design. Used OpenSim for musculoskeletal modeling and MOCO for parameter optimization, enhancing user adaptation.
- Processed gait data with OpenSim and MOCO, optimizing control parameters like joint torques and muscle forces. Applied machine learning algorithms (e.g., SVM) to predict optimal settings, improving adaptive control for users.
- Contributed to research findings by summarizing optimized strategies and parameters in reports. Collaborated on research papers and presentations for academic conferences, highlighting performance improvements and machine learning integration.

COURSES

Data Visualization, The Data Science Toolbox, Introduction to Machine Learning, Programming in Python for Data Science

EDUCATION AND CERTIFICATES

Master of Engineering in Biomechanics   **May 2022**

University Of Ottawa, Ottawa, ON

Master of science in Biomaterials   **January 2020**

Amir Kabir University of Technology, Tehran, Iran

Bachelor of science in Biomechanics   **May 2017**

University of Isfahan, Esfahan, Iran