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

Evaluation Metrics, Data augmentation, Image processing, Machine Learning, Deep learning, CNNs, RNNs, 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 **November 2024 – Present**

- Execute a deep learning project for automated chest X-ray classification using CNNs, successfully detecting conditions like pneumonia and lung cancer with high accuracy, thereby supporting faster clinical decision-making processes.
- Develop different ML solutions for real-world challenges.
- Conduct literature review on various topics. Found several potential ideas to work and investigate on.
- Initialize multiple ML/AI projects, ranging from image classification to chatbot development.

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**

- Designed a CNN-based model to analyze medical imaging data for early detection of diabetic retinopathy, achieving 92% accuracy and enabling proactive treatment recommendations.
- Preprocessed and augmented a dataset of 30,000 retinal images, enhancing model accuracy and minimizing overfitting.
- Partnered with clinicians to validate the model's predictions, streamlining diagnostic workflows and reducing manual review time by 25%, contributing to faster patient assessments.

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

- Assisted the principal investigator in planning, executing, and analyzing experiments or studies related to Optimizing a feature of an exoskeleton which involve data collection, literature reviews, and experimental design.
- Processed and analyzed experimental data using relevant software tools such as Openism, MOCO Toolkit which is a gait analysis software, and Python. Summarized findings and contribute to research publications and presentations.

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