Ali Reza Torabi

devalirezatorabi@proton.me|09206200348|portfolio website| github.com/nullxxnerd

Skills

Python-SQL-Pytorch-Pandas-Numpy-keras-llms hugginface-Sckit-Learn

Experience

AI Course Teaching Assistant,University: October 2024 – Jan 2025

- **Python Basics**: Taught loops, functions, and debugging for AI-ready coding.
- **Machine Learning Core**: Explained regression, classification, and evaluation using scikit-learn.
- **Hands-On Projects**: Guided students with NumPy, pandas, TensorFlow, and matplotlib for practical ML.

Software Developer,Lidoma Agency–Karaj: December 2023 –March 2024

- **Proficient in Next.js and React**: Skilled in building dynamic, SEO-friendly web applications with server-side rendering and client-side routing.
- **Experienced with Modern Libraries**: Expertise in using Tailwind CSS, Shadcn-UI, and Axios for efficient state management, styling, and API communication.
- **API Optimization and Database Management**: Skilled in designing and consuming REST APIs, optimizing API calls, implementing caching strategies, and managing databases efficiently for scalable and performant applications.

Projects

Product Title Categorization: github.com/nullxxnerd/title_categorizer-

- **Developed** a product categorization system using a **CNN-based architecture** for classifying product titles(1D CNN) the model accuracy was higher than **87%** on unseen data.
- **Trained** the model on the **Torob.com products dataset**, leveraging PyTorch for implementation with small network achieving best results without long training time.
- **Designed** a multi-layer model with embedding, convolutional, pooling, and dense layers for robust text classification.

Categorization Based on Product Image: github.com/nullxxnerd/Product-Image-Classification-

- **Objective**: Build a Product Image Classification Model to categorize diverse product images, leveraging a **CNN** with a ResNet50 architecture the model accuracy was higher than 90% on unseen data.
- **Dataset**: Utilized the **Torob dataset**, featuring a wide variety of fashion and product images for training and evaluation.
- **Technical Workflow**: Fine-tuned a ResNet50 model pretrained on ImageNet, trained with Categorical Cross-Entropy Loss and the Adam optimizer, achieving high accuracy for multi-class classification.

Other Projects and Certificates

- **DEEP LEARNING COURSE - QUERA**
- **SHARIF MACHINE LEARNING COURSE**

Education

Bachelor Computer Science OCTOBER 2023-PRESENT

Diploma Mathematics-Physics Sampad Soltani 3 SEPTEMBER 2020-2023