

# Ali Reza Torabi

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## Skills

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

## Experience

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**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

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**Product Title Categorization:**

[github.com/nullxxnerd/title\\_categorizer](https://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](https://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

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Bachelor Computer Science

OCTOBER 2023-PRESENT

Diploma Mathematics-Physics Sampad Soltani 3

SEPTEMBER 2020-2023