Mehdi Gholami

CS Student

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GitHub
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Summary

I am Mahdi Gholami, a third-year Computer Science student at Amirkabir University of Technology. Previously, I studied Electrical Engineering at Iran University of Science and Technology. After that, I launched an intermediary store for subscription payments of online services, which I developed and managed for about four years.

Skills

- Python, C/C++, Java
- Numpy, Pandas, Scikit-learn
- Keras, Pytorch
- EDA and visualizing data
- ML algorithms and concepts
- Hugging Face
- Git, Docker
- OOP, FastAPI
- Web scraping with Selenium
- Figma, Adobe XD
- Adobe Photoshop, Adobe Illustrator

Experience

Co-founder at IranSpoty, Jul 2021 – Now

- Used Metaheuristic algorithms to solve the Vehicle Routing Problem. Researched and developed on Reinforcement Learning methods.
- Created a novel algorithm based on KMeans considering problem constraints.
- Fine-tuned a Hugging Face model to convert address texts to accurate locations. Achieved 94% accuracy.
- Developed backend using FastAPI, with PostgreSQL as the underlying database, and Rest API architecture.

Education

Bachelor of Electrical engineering from Iran University Of Science And Technology, 2017 – 2019

Bachelor of Computer Science from Amirkabir University Of Technology, 2023 – Now

Projects

CPU Scheduling Simulation

- Simulates common CPU scheduling algorithms like FCFS, SJF, Priority, and Round Robin.
- Visualizes process execution order and timing.
- Useful for learning how scheduling strategies affect performance.

Multithreaded Sorting (C / pthreads)

- Implements parallel sorting using multithreading.
- Improves performance by dividing data across threads.
- Demonstrates concurrency in sorting algorithm