Ali Behdarnejad

Artificial intelligence and robotic engineer

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Sliks & Tools

AI libraries and frameworks: pytorch, pytorch(transformers), OpenCV, Sklearn, NumPy, pandas, hugging-face and spark.
Programing Language: advanced python programing and familiar with C, C++, Java and GO.
AI algorithms and concept: NLP, Computer Vision, Machin learning, Deep Learning, Deep reinforcement learning, Big Data.
Tools: git, Ducker, anaconda, Gitlab, Elasticsearch, Django OpenStack, vscode, Linux

Work Experience

SBU robotic lab / AI and robotic researcher
December 2024 – present

As a robotic researcher I got started with DeepRL and I had to have an overview of the field, I find the best opportunity is from generalist robots which are using LLMs, we design a cutting age algorithm to address weakness of existing algorithms in.

Sahand advance technology / Software developer
2023 – 3 months

I worked in the company as software developer to write java programs on android OS for POS devises and repairing customer POS with software problems.

City Hospital / Medical Officer
2023 – 6 months

As internship, my responsibility in the company was running OpenStack on the server and create VM for the customer.

Highlight Projects

Agentic-RAG-Elasticsearch was a project which I learned a lot form I realize the most important part of a good RAG system is retrieval and Elastic was the best open source to use for multiple reasons after this accuracy of the model has improved by 145 present which is also improvable.
Mavc2-Object-detection in this project I used classic computer vision and CNNs to identify, denoise and detect some objects in a robotic simulator. and some other projects for 3 months with a team.
Master project, in this project I'm working on state-of-the-art technology of our field like VLAs, VLMs to create generalist robots which can like human learn and improve themselves. in this project I'm using Gitlab, Docker, Genesis, torch, transformer and TRL

Education

Master of AI engineering and robotic
Shahid Beheshti university (SBU)
August 2023 – September 2025

I have been learning a lot about AI At the University. I have more than 20 project implementation and 7 Article implementation from different topic of AI such as Deep Learning, Deep RL, NLP, LLMs, VLMs, CV and Image processing which some of them are available at my GitHub.

Bachelor of computer science
Ghom university
August 2019 – September 2023

In this university I learned a lot about fundamental of CS like algorithms, compiler, Linux Kernel, network and software engineering

Connect Info

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Hobbies

Running, swimming, gaming, traveling, talking with people, learning new things