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Mohammad Amin Roohi

Machine Learning Engineer

Portfolio: m5a0r7.github.io
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EDUCATION

Master of Applied Science in Electrical and Computer Engineering Sep 2020 - Oct 2022
University of British Columbia Vancouver, BC, Canada

Bachelor of Science, Dual major in Electrical Engineering and Computer Science Sep 2014 - July 2019
Sharif University of Technology, Tehran, Tehran, Iran

SKILLS

Tools and Languages Python: PyTorch, Tensorflow, Keras, NumPy, Pandas, wandb, timm, Sklearn, OpenCV, Pillow, Beautiful-Soup, Request, Socket, Django, Pathlib, matplotlib, NLTK, DGL, Hugging Face Transformers, rasa
Julia, C/C++, R, Java, Cuda, Git, \LaTeX , Markdown, MySQL, PostgreSQL

Cloud AWS, Microsoft Azure, Google Cloud

Quantitative Research Safe optimization and Nesterov methods, Deep Learning, Mathematical Modeling, Domain Adaptation, Graph NN, Attention, Transformers, YOLO1-8, FRCNN, CycleGAN, Image Colorization, ViT, NLP, LLM, GPT, Stanford Alpaca, BERT, LangChain

Communication English

WORK EXPERIENCE

Machine Learning Engineer Aug 2022 — Present
CanDry Technologies Vancouver, BC

- Developing computer vision pipelines with the state-of-the-art algorithms
- Data collection, pre-processing, post-processing the huge datasets
- Developing conversational AI bot to handle phone calls using large language models
- Software developing using Django framework

AI Research scientist Sep 2020 — Oct 2022
UBC Vancouver, BC

- Developed and designed a safe optimization algorithm with a fast convergence rate
- Developed Accelerated and momentum algorithms in an online optimization setting
- Designed an accelerated algorithm for online optimization outperforming similar ones in convergence rate
- Implemented safe optimization algorithm for real-world usage as an open-source Python library

Teaching Assistant Jan 2022 — Apr 2022
Introduction to Data Science, UBC Vancouver, BC

- Teaching assistant and grader in Data Science Course
- The course had more than 700 students
- Talking to students about projects and giving ideas
- Monitored the students' questions on the piazza platform helped them to gain intuition and proper programming skills for data science