Alireza Hariri

Data Scientist · Software Engineer · Deep Learning Specialist

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Experience

Data Scientist
Hara co.

Tehran
2020 - 2024

- Designed and developed a speech search-engine on a 50,000-hour dataset, which can find queries based on combinations of keywords and metadata filtering.
- Trained and managed large-scale speech-to-text models, handling over 70GB of compressed data.
- Built a neural network from scratch for speech-understanding tasks.
- Achieved up to 20x speed optimizations in text normalization, improving processing efficiency.
- Improved inference time by 55% in a critical production bottleneck.
- Improving labeling pipelines.

Developer
Frontend Developer at Kalapich

Tehran
May 2018 - August 2018

- Created the website with `react` from scratch.
- A bit of data analyses with python.

Intern
Natural Language Processing lab.

Tehran, Shahid Beheshti University
May 2019 - August 2020

- Trained a question pair similarity detection model with pytorch.
- Worked with word embeddings and convolution.
- Learned `pytorch` here.

Example Projects

Simple Retriever
🐙 alireza-hariri/simple-retriever

A simple wrapper around common retrieval tools in python
- Dense and sparce retrieval methods.
- Examples of typo-tolerant `tf-idf` retrieval by `sk-learn`.

Long-Polling tool for python
🐙 alireza-hariri/long-polling

Long-polling tool for asynchronous Python backend.

- Real-time message passing between server and clients without using sockets.
- Asynchronous (with `asyncio`).
- load-tested (with `geventhttp`).

Skills

Languages	**Python**, C, JavaScript
Spoken Languages	English, Persian
tools	**pytorch**, **numpy**, linux, scikit-learn, flask

Education

University Of Tehran
Master of Science (MS), Artificial Intelligence And Robotics — September 2018 - October 2021

- Enjoyed practical and theoretical courses such as Active Learning, Complex Networks, and Statistical Inference.
- Thesis: Neural Architecture Search on residually connected networks.

University Of Tehran
Bachelor of Science (BS), Engineering Science (Electronics Engineering) — October 2011 - September 2016

- Learned a lot of things like FPGA-Programming and Circuit-Design in this period.