Matin Zivdar

Undergraduate Student

Tehran, Iran

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Summary

Last year student of **Computer Science** at Shahid Beheshti University with **3+ years** of experience doing different **machine learning projects**, competing in **data science contests**, and **researching** and **accelerating** different algorithms. I have **mentored** over 10 students in **SBU AIClub** and given lectured freshmen for 3years.

Tools and Technologies
- Scikit-learn, Tensorflow, PyTorch
- MLflow, AWS SageMaker
- Kafka, Django REST

Work Experience

Institute for Research in Fundamental Siences (IPM)
Research Assistant

Tehran, Iran
Fall 2021 – Present

- Accelerated bsbf min-sum decoder algorithm using **bit-slicing** on Nvidia GPUs by **CUDA**.
- Working on implementation of CORDIC algorithm using bit-slice approach.

Rahnema College
Machine Learning Intern

Tehran, Iran
Summer 2021

- Built a web crawler detection model using **unsupervised** learning approaches.
- Workshops included **mathematics**, **machine learning**, **deep learning**, **big data** and **soft skills**.

Classgram
Development Intern

Tehran, Iran
Summer 2020

- A backend development internship focused on the **Django REST** framework.
- Fixed some minor bugs on some of the endpoints.
- Implemented i18n feature

Education

Shahid Beheshti University
B.Sc. in Computer Software Engineering

Tehran, Iran
Sep. 2018 – Present

- Current GPA: 17.61/20

Allameh Helli High School
Diploma of Math & Physics

Tehran, Iran
Sep. 2005 – Sep. 2018

- GPA: 18.80/20

Extracurricular Activity

Shahid Beheshti University
Teaching Assistant

Tehran, Iran
Fall 2020 – Present

- Machine Learning, Dr. Hamed Malek (Fall 2022)
- Artificial Intelligence and Expert Systems, Dr. Mehrnoush Shamsfard (Fall 2021)
- Computer Architecture, Dr. Dara Rahmati (Fall 2021)
- Principles of Compiler Design, Ph.D. student Mohammad Reza Bahrami (Fall 2021)
- Engineering Mathematics, Dr. Hamed Malek (Fall 2021)
- Theory of Machines & Languages, Dr. Ramak Ghavamizadeh (Fall 2020)

Rahnema College
Mentor

Tehran, Iran
Winter 2021 – Spring 2022

- Helped 4 individual interns of an advanced machine learning course to get their product done. The project was an **offline reinforcement learning** news **recommendation system** using Microsoft's MIND dataset.

SBU AI Club
President

Tehran, Iran
Winter 2021 – Present

- Held workshops for 2022 freshmen

SBU AI Club
Tutor

Tehran, Iran
Fall 2020 – Winter 2021

- Lectured Deep Learning for Spring-2021-AI-Course
- Lectured Basics of Python and KNN for AI-Class-for-Freshmen-of-1398 (2020)

Project

DRL Drone Movement
Deep Learning's Course Final Project

Github (private)
Winter 2021

Control DJI' Mavic 2 PRO drone movements from one point to another using **Deep Reinforcement Learning**. For agent to communicate with the environment, I used **Kafka**.

Persian Car Classifier
Computational Intelligence's Final Project

Github
Fall 2021

Classifying **Persian car brands** using car images that were **scrapped** from Divar and Bama e-commerce companies. **Deep Learning** approaches have been implemented by using **PyTorch** and **MLflow** frameworks.

Web Crawler Detection
Rahnema College internship's Final Project

Github
Summer 2021

Machine Learning hybrid approach for **detecting anomalies** in Sanjagh **server log**. Used **MLflow** in order to run as a web service.

Certificate

Build, Train, and Deploy ML Pipelines using BERT
Credential ID · 6RL73XK2FYZD

Coursera
Issued Jun. 2022

Analyze Datasets and Train ML Models using AutoML
Credential ID · FS5BAG2J9PNU

Coursera
Issued Feb. 2022

Neural Networks and Deep Learning
Credential ID · CVSD42EKFQRT

Coursera
Issued Apr. 2021

JavaCup Certified Java Programmer
Credential ID · JC006-1164

Javacup Association
Issued Oct. 2019