Shervin Iranaghideh

Nationality: Iranian **Date of birth:** 29/07/2002 **Gender:** Male **Phone:** (+98) 9938064299 (Mobile) **Email address:** shervinranaghideh@gmail.com **GitHub:** https://github.com/dearshervin **Website:** https://dearshervin.github.io/ **Address:** No. 39, first floor, Shahid Rafiei Alley, North Golestan Street, Ferdows Shargh Blvd., Second Sadeghieh Square, 1481886881, Tehran, Iran (Home)

EDUCATION & TRAINING

B.S. Computer Science

Islamic Azad University Science and Research Branch (SRBIAU) [22/09/2020 - 16/08/2025]

Address: End of Shahid Sattari Highway, University Square, Hesarak Martyrs Boulevard Islamic Azad University, Science and Research Branch, Tehran (Iran) | **Website:** srb.iau.ir/en | **Final grade:** 16.79 (out of 20) | **Level in EQF:** 6 | **Number of credits:** 142 | **Thesis:** Fine-Tuning Small Transformer Models for News Topic Classification: Accuracy–Efficiency Tradeoffs Between DistilBERT and MiniLM on AG News.

RESEARCH INTERESTS

Machine Learning — Natural Language Processing — Human-computer Interaction

RESEARCH EXPERIENCE

Research | Multi-Commodity Transportation | SRBIAU | Spring 2023

Supervisor: Dr. Farhad Hosseinzadeh Lotfi

- Mathematical modeling of Multi-Commodity Transportation Problems (PDF).
- Introduced a method for solving MCTP using SciPy Python.
- Made a program with a simple UI that solves these problems and deployed it on HF Spaces for an online demo using Gradio Python library.

Research | DistilBERT vs MiniLM for AG News Topic Classification: Accuracy–Efficiency Trade-offs in Fine-Tuning | SRBIAU | Fall 2023

Supervisor: Dr. Tofigh Allahviranloo

- Fine-tuning two small pre-trained transformer models on AG News dataset using Google Colaboratory.
- Comparing their Accuracy, Macro F1 Score and train time.
- Documenting methodology and results in a report. (PDF)

WORK EXPERIENCE

E-Commerce Brokers of Iran - Iran, Tehran

Website: https://www.ecb.ir/

Front-end Developer

[10/07/2024 - Current]

- Designed and developed user-centric interfaces for diverse web projects, including a high-performance e-commerce website with back-end functionality for price calculations.
- Built and customized feature-rich platforms using CMS solutions such as DNN (Dot Net Nuke).
- Designed blog templates and authored blog posts for the E-Commerce Brokers of Iran website.

Front-end Designer Intern

[25/06/2023 - 30/09/2023]

- Contributed to various web development projects using HTML, CSS, JavaScript, and working with WordPress and DotNetNuke (DNN), and collaborating within a professional team.

TEACHING EXPERIENCE

Teaching Assistant | Linear Programming (Optimization) | SRBIAU | Fall 2023

Instructor: Dr. Farhad Hosseinzadeh Lotfi

- Conducted 1-hour practice problem-solving sessions.
- Provided troubleshooting support for students.
- Developed practice problems for students.
- Guided students in solving practice problems.

Teaching Assistant | Calculus 1 | SRBIAU | Fall 2023

Instructor: Dr. Somayeh Ghezelahmad

- Managed the final 45 minutes of each class, guided students in solving problems.
- Assessed student performance: Evaluated assignments, quizzes, and exams.
- Provided troubleshooting support for students.

SKILLS

Programming Languages

Python | Go | LaTeX | C/C++

Libraries

PyTorch | TensorFlow | Scikit-Learn | NumPy | Matplotlib | Pandas | spaCy | NLTK | SciPy | Kivy

Web Development

TypeScript | JavaScript | React | Next.js | DotNetNuke (DNN) | WordPress | HTML | CSS

Developer Tools

Git | Docker | Google Colaboratory | Jupyter Notebook | JetBrains IDEs (Intellij, WebStorm, PyCharm) | Plesk

Design Tools

Figma | Adobe Premiere Pro | Adobe Illustrator

LANGUAGE SKILLS

Mother tongue(s): Persian

Other language(s): English (C1) (TOEFL iBT Score: 101)

SELECTED ACADEMIC PRESENTATIONS

Docker

Course: Operating Systems - Semester: Fall 2023

An in-depth view of containerization technology using Docker, covering its core concepts, architecture, and benefits in modern software deployment.

Presented at SRBIAU

Link: https://dearshervin.github.io/pdfs/Docker-Presentation.pdf

8-Queen Problem

Course: Artificial Intelligence - Semester: Fall 2023

A presentation on solving the classic 8-Queen puzzle using various AI search algorithms to illustrate constraint satisfaction problems. Various algorithms explained such as Hill Climbing, Brute Force Search, Backtracking, Genetic Algorithms and Simulated Annealing.

Presented at SRBIAU

Link: https://dearshervin.github.io/pdfs/8-Queen%20Presentation.pdf

Domain Name System (DNS)

Course: Networking - Semester: Fall 2022

An in-depth look at the Domain Name System (DNS), explaining its hierarchical structure, resolution process, and critical role in internet infrastructure.

Presented at SRBIAU

Link: https://dearshervin.github.io/pdfs/DNS.pdf

Applications of Linear Algebra in Machine Learning

Course: Linear Algebra - Semester: Spring 2022

Presentation on linear algebra applications in ML/AI: loss & regularization, covariance, SVM, and PCA (eigenvectors). Also covered NLP basics—vectorizing text and word embeddings—plus representing datasets with vectors/matrices/tensors (design matrix). Included a practical GPS positioning example.

Presented at SRBIAU

Link: https://dearshervin.github.io/pdfs/Linear-Algebra-ML-Applications.pdf

Cryptography

Course: Principles of Computer Systems - Semester: Fall 2021

A presentation on cryptography fundamentals for computer systems, covering what encryption is, a brief history (e.g., Caesar cipher, Enigma/Bombe), and symmetric encryption concepts (plaintext/key/ciphertext) with common algorithms like AES, DES, Blowfish, and RC4/5/6.It also reviewed real-world uses and tradeoffs (especially key-management challenges) and introduced hashing and its role in blockchain/cryptocurrency security.

Presented at SRBIAU

Link: https://dearshervin.github.io/pdfs/Cryptography-Computer%20Systems.pdf

COURSES

Related Courses

Data Structures and Algorithms - Machine Learning (Assignments) - Artificial Intelligence - Probability 1 - Numerical Linear Algebra - Linear Algebra - Logic - Numerical Analysis - Linear Programming

REFERENCES

Recommenders

Dr. Farhad Hosseinzadeh Lotfi - Professor of Applied Mathematics at SRBIAU | Google Scholar | Scopus | Email | Phone: (+98) 9123034649

Dr. Tofigh Allahviranloo - Professor of Applied Mathematics at Istinye University | Google Scholar | Scopus | Email | Phone: (+90) 5426182248

Dr. Somayeh Ghezelahmad - Professor of Applied Mathematics at SRBIAU | Google Scholar | Scopus | Email | Phone: (+98) 9394723887

HOBBIES AND INTERESTS

Activities I Enjoy : Playing Basketball (played for 10 years, including 5 years semi-professionally - teams: Cyrus, Takhti - position: PG and SG), playing the Piano, Video Editing and Graphic Design.