

Keivan Jamali

+98 910 151 1983 | KeivanJamali01@gmail.com | Keivanjamali.com | github.com/KeivanJamali | linkedin.com/in/keivan-jamali/
Address: Maskan Square, Megdad Street, Shagayeg Valy, Yazd City, Yazd Province, Iran, Postal Code: 8915788874

Education

GPA: 4.0/4.0 **Bachelor of Science in Civil Engineering**, Sharif University of Technology | Tehran, Iran 2020-24
19.63/20 **High School Diploma in Math and Physics**, National Organization for Development of Exceptional Talents (Sampad) | Yazd, Iran 2014-20

Related Courses

Related Courses: Intelligent Transportation Systems (ITS) (Currently) | Advanced Programming (Python) (Currently) | Project and Construction Management (Currently) | Economics of Engineering (Currently) | Traffic Engineering (18.3/20.0 - Top Mark) | Probabilities & Statistics in Civil Engineering (20.0/20.0) | Numerical Methods in Engineering (20.0/20.0) | Computer Application in Civil Engineering (18.1/20.0)

Virtual Courses: PyTorch for Deep Learning in 2023 Zero to Mastery - Udemy | Portfolio Constructions & Analysis - Coursera – 2023 | Python Supplementary programming - Faradars – 2022 | Differential Equations at MIT University- Instructors: Prof. Arthur Mattuck & Prof. Haynes Miller – 2021

Research Interests

Intelligent Transportation Systems (ITS) | Traffic Flow | Automated Vehicles | Smart City | behavior | Machine Learning

Research Experience

LOS Prediction Under Rainy Weather Conditions, Research Assistant (Dr. Z. Amini) | Tehran, Iran Oct. 2023 - Present
• Developed and implemented Machine learning to predicting level of services under rainy weather in unseen regions.
• Planning to write a research paper on the project's findings and insights.
• Progress and updates on the project can be tracked on KeivanJamali.com & [Github](https://Github.com).

Comparative Analysis Of Gravity Model, Neural Network, And Graph Neural Network For Traffic Demand Modeling In Urban Areas, Research Assistant (Dr. Z. Amini) | Tehran, Iran Jun. 2023 - Present
• Developed and implemented a traffic demand modeling framework using the Gravity model (GM), Neural Networks (NN) and Graph Neural Network (GNN) for accurate flow prediction.
• Contributing to a research paper on the findings.
• Documented the project details and outcomes on KeivanJamali.com & [Github](https://Github.com).

Teaching Experience

Statistics and Probabilities in Civil Engineering, Teacher Assistant | Instructor: Dr. H. Abdoos | Tehran, Iran Oct. 2023 - Present
• Graded assignments, tests, and projects.
• Provided guidance and support to students.

Structural Analyses I, Teacher Assistant | Instructor: Dr. H. Abdoos | Tehran, Iran Oct. 2023 - Present
• Graded assignments, tests, and projects.
• Provided guidance and support to students.

Introduction to Python, Teaching | Remote Dec. 13th 2021
• Conducted virtual class, teaching Introduction to Python programming to first-year students.
• Received a student rating of 4.8 out of 5 with over 100 attendees.
• Presented programming examples and administered in-class tests. The codes are available on [Github](https://Github.com).

Working Experience

Research and Analysis (R & A), DSC.aero - Aviation Data Analysis | Remote Feb. 2022 - Sep. 2022
• Analyzed airline operational data from various sources.
• Identified insights to improve efficiency and customer experience.
• Implemented data findings on DSC.aero website.
• Assisted with employee onboarding and provided guidance.

Skills

Programming Python (PyTorch, Pandas, Scikit-learn, Numpy, Kivy, matplotlib, etc.), PyCharm, Git, WordPress, LaTeX, HTML & CSS.
Civil Matlab, Mathcad, Maple, AutoCAD, Photoshop, Revit, CSI ETABS, Prezi, Microsoft Office
Soft Skills Teamwork, Leadership, Presentation, Public Speaking

Projects

Conceptual Review of the Persian Translation of "A Primer on Machine Learning Applications in Civil Engineering" by Paresh Chandra Deka

Nov. 2023 - Present

Voluntary Project | Supervisor: Dr. M. Ahmadi

Tehran, Iran

- Conducting a comprehensive review of the translated book to identify and correct conceptual errors.

Modeling of Azadi Tower Using Finite Element Method (FEM)

Feb. 2023 - Jun. 2023

Computer Application in Civil Engineering (Course Project) | Instructor: Dr. M. Ahmadi

Tehran, Iran

- Developed a 2D FEM model to simulate and analyze the structural behavior of Azadi Tower.
- Utilized Python to determine forces and displacements, and generated plots to visualize the results.
- Project is available on KeivanJamali.com & [Github](https://github.com).

Modeling the Transfer of Pollution in the Persian Gulf

Feb. 2023 - Jun. 2023

Environmental Engineering (Course Project) | Instructor: Dr. M. Danesh

Tehran, Iran

- Developed a comprehensive model to simulate pollution diffusion and advection in the Persian Gulf.
- Project is available on KeivanJamali.com & [Github](https://github.com).

Vision Modeling with PyTorch

Oct. 2023 - Present

PyTorch for Deep Learning in 2023 Zero to Mastery - Udemy

- Currently engaged in the development of a vision-based model using PyTorch.
- Progress and updates on the project can be tracked on [Github](https://github.com).

A Software for Calculating Variance

Jan. 2021 - Jun. 2021

Physics Lab 1 | Personal Project

- A graphical program designed with Kivy library.
- The program and source code is available on [Github](https://github.com).

Achievements

2023 **Ranked 2nd among 80 students**, Recognized as one of the top students at Sharif University of Technology.

Tehran, Iran

2020 **Ranked in the Top 0.2% among 155,000 participants**, Competitive National University Entrance Examination.

Tehran, Iran

2019 **Ranked 2nd**, Start-Up Event

Yazd, Iran

Languages

English Proficient

Persian Native

Hobbies

Playing Piano,

Playing Flute,

Cooking,

Playing Ping-Pong,

References

Dr. Zahra Amini, Assistant Professor | Tehran, Iran

Email: zahra.amini@sharif.edu

Prof. Mohammad Mehdi Ahmadi, Professor | Tehran, Iran

Email: mmahmadi@sharif.edu

Prof. Mohsen Ghaemian, Professor | Tehran, Iran

Email: ghaemian@sharif.edu

Mr. Hatef Abdoos, Instructor | Tehran, Iran

Email: hatef.abdoos2015@sharif.edu