Farane **Jalali Farahani**

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Education

Sharif University of Technology

Tehran, Iran

M.S. IN COMPUTER ENGINEERING - ARTIFICIAL INTELLIGENCE

Sep. 2018 - Sep. 2020

GPA: 37/4

• Thesis: Persian Named Entity Recognition, Supervisor: Gholamreza Ghassem-Sani

Iran University of Science and Technology

Tehran, Iran

B.S. IN COMPUTER ENGINEERING - HARDWARE ENGINEERING

Sep. 2012 - Feb. 2017

• GPA: 3.05 / 4

• Thesis: Implementation of Smart Irrigation System in IoT, Supervisor: Morteza Analoui

Areas of Expertise _____

- Machine learning and Deep learning
- · Natural Language Processing
- · Information Extraction
- Computational Social Science

Skills

Programming Languages Python, MATLAB, Verilog, C++, HTML, CSS, JavaScript, Prolog, Assembly

Machine Learning Libraries Numpy, Pandas, Matplotlib

Deep Learning Framework Pytorch

> NLP ToolBox Pytorch-transformers

> > Software Visual Studio, IntelliJ, Eclipse, Xilinx ISE, LEdit, PSpice, ModelSim

Document Preparation LaTex, Microsoft office, Prezi

Data Analysis Tools Jupyter Notebook

> Language English (Fluent), Farsi (Native), Arabic (Basic), German (Basic)

Experience _____

University of Stuttgart, Institute for AI

Stuttgart, Germany

RESEARCH AND TEACHING ASSISTANT

Oct. 2022 - Present

- · Designed and implemented solutions for social media fairness in the IRIS3D project (IRIS3D Project).
- Teaching Assistant for the Machine Learning course (Summer Semester 2024): delivered lectures, designed exams, and managed grading.
- Conducted a seminar on social media bias for 15 undergraduate students, fostering critical thinking and discussion.

Max Planck Institute for Informatics

NATURAL LANGUAGE PROCESSING INTERN

Saarbrücken, Germany

May 2021 - Present

- · Supervised by Gerhard Weikum, Andrew Yates, and Paramita Mirza.
- Improved neural language models for information extraction tasks.

Iran Telecommunication Research Center

Tehran, Iran

INTERNET OF THINGS INTERN

Jun. 2015 – Oct. 2015

Sept. 2018 - Sept. 2020, Fall 2019, Spring

- Supervised by Nasser Mozayani and Farzad Ebrahimi.
- Implemented smart lighting using Raspberry Pi and designed an Android application.

Sharif University of Technology, Computer Engineering Department

Tehran, Iran

RESEARCH AND TEACHING ASSISTANT

- · Research Assistant at NLP Lab supervised by Gholamreza Ghassem-Sani: Combined transfer learning and active learning methods for Persian
- · Teaching Assistant for Stochastic Processes in Bioinformatics (CE556), Instructor: Mohammad Hossein Rohban: Teaching, managing assignments, and grading quizzes.
- Teaching Assistant for Artificial Intelligence (CE417, Group 1), Instructor: Mohammad Hossein Rohban: Managed assignments.
- Teaching Assistant for Artificial Intelligence (CE417, Group 2), Instructor: Mahdieh Soleymani: Graded quizzes.

FARANE JALALI FARAHANI · CURRICULUM VITAE JANUARY 13, 2025

TEACHING ASSISTANT

- Course: Introduction to Computer Programming (C++).
- Instructor: M. Reza Torkashvan.
- · Responsibilities: Teaching and managing assignments.

Honors & Awards

- · Ranked 12th among more than 19,000 participants in Master Entrance Exam of 2018 in computer engineering.
- Awarded full scholarship from Sharif University of Technology (SUT) in computer engineering.
- I Ranked 80th among more than 15,000 participants in Master Entrance Exam of 2018 in Information Technology
- Ranked top 1% among more than 30,0000 participants in National University Entrance Exam of 2012.
- Awarded full scholarship from Iran University of Science and Technology (IUST) in computer engineering.

Publications

BERT-PersNER: a New Model for Persian Named Entity Recognition

PROCEEDINGS OF RECENT ADVANCES IN NATURAL LANGUAGE PROCESSING, 1-3 SEPTEMBER 2021, VARNA, BULGARIA

• Authors: Farane Jalali Farahani, Gholamreza Ghassem-Sani

Who is targeted? Detecting social group mentions in online political discussions

Websci'24: 16TH ACM Web Science Conference, May 21 - 24 2024, Stuttgart, Germany

• Authors: Farane Jalali Farahani, Sara Hanke, Raphael Heiberger, Steffen Staab

Selected Courses

Deep Learning 20/20, Machine Learning Theory 19.6/20, Artificial Intelligence Planning 17.8/20, Artificial Intelligence 19/20, Signal and Systems 19/20, Embedded Real-time Systems 20/20, Digital Electronics 18.33/20, Engineering Probability and Statistics 18.5/20, Linear Control Systems 19/20, VLSI 18.25/20, Computer Architecture 17.91/20