

Farane Jalali Farahani

Max Planck Institute for Informatics, Saarland Informatics Campus, Germany

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EDUCATION

Sharif University of Technology

M.S. in Computer Engineering - Artificial Intelligence

GPA: 3.7 / 4

Thesis: Persian Named Entity Recognition

Supervisor: Gholamreza Ghassem-Sani

Tehran, Iran

Sept.2018 - Sept.2020

Iran University of Science and Technology

B.S. in Computer Engineering - Hardware

GPA: 3.05 / 4

Thesis: Implementation of Smart Irrigation System in IoT

Supervisor: Morteza Analoui

Tehran, Iran

Sept.2012 - Mar.2017

Allameh Tabatabaei high school

Pre-University Diploma in Mathematics and Physics

GPA: 19.42 / 20

Tehran, Iran

Sept.2011 - Jun.2012

RESEARCH INTERESTS

- ▶ Machine learning and Deep learning
- ▶ Natural Language Processing
- ▶ Information Extraction
- ▶ Transfer Learning

PUBLICATIONS

a New Model for Persian Named Entity Recognition

Proceedings of Recent Advances in Natural Language Processing (RANLP 2021) , 1-3 September 2021, Varna, Bulgaria (Online), pp. 647-654.)

- Authors: Farane Jalali Farahani, Gholamreza Ghassem-Sani

WORK EXPERIENCE

Natural Language Processing

Intern

Max Planck Institute for Informatics, Saarbrücken, Germany

May 2021 - Present

- Supervisors: Gerhard Weikum, Andrew Yates, Paramita Mirza
- Responsibilities: Improving neural language models for information extraction tasks.

Internet of things

Intern

Iran Telecommunication Research center, Tehran, Iran

Jun. 2015 - Oct. 2015

- Supervisors: Nasser Mozayani, Farzad Ebrahimi
- Responsibilities: Implementing smart lighting using Raspberry Pi and designing an Android application.

ACADEMIC EXPERIENCES

Teaching Assistant

Stochastic Processes in Bioinformatics

Sharif University of Technology
Fall 2019

- Code: CE556
- Instructor: Mohammad Hossein Rohban
- Responsibilities: Teaching, managing assignments, and grading quizzes.

Teaching Assistant

Artificial Intelligence

Sharif University of Technology
Spring 2019

- Code: CE417, Group :1
- Instructor: Mohammad Hossein Rohban
- Responsibilities: Managing assignments.

Teaching Assistant

Artificial Intelligence

Sharif University of Technology
Spring 2019

- Code: CE417, Group :2
- Instructor: Mahdieh Soleymani
- Responsibilities: Grading quizzes.

Research Assistant

NLP Lab

Sharif University of Technology
Sept. 2018 - Sept. 2020

- Supervisor: Gholamreza Ghassem-Sani
- Responsibilities: Combining transfer learning and active learning methods for Persian NER

Teaching Assistant

Introduction to Computer Programming(C++)

Iran University of Science and Technology
Spring 2014

- Instructor: M. Reza Torkashvan
- Responsibilities: Teaching and managing assignments.

HONORS AND 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.
- ▶ Ranked **80th** among more than 15,000 participants in Master Entrance Exam of 2018 in Information Technology.
- ▶ Ranked top **1%** among more than 30,000 participants in National University Entrance Exam of 2012.
- ▶ Awarded full scholarship from **Iran University of Science and Technology (IUST)** in computer engineering.

SELECTED COURSE PROJECTS

Course: Deep Learning

Deep learning packages: Pytorch

- ▶ Transfer learning for CNN classification(datasets: CIFAR-100, CIFAR-10)
- ▶ Times series prediction using GRU, LSTM(dataset: Apple Inc.'s stock price)
- ▶ Generative adversarial network(dataset: MNIST)

- Sequence generation using LSTM(dataset: Shakespeare)
- Denoising Autoencoder and Conditional Variational Autoencoder(dataset: MNIST)

Course: Machine Learning

Machine Learning libraries: Numpy, Pandas, Matplotlib

- Classification for sensor-based human activity recognition (SVM, logistic regression, Adaboost, random forest)

Course: Artificial Intelligence

- Search in Pipe and Connect Four games using Python

Course: Very Large Scale Integration (VLSI)

- Implementing Adder using LEdit

Course: Computer Architecture

- Implementing CPU using Xilinx ISE

Course: Automatic Design of Digital Circuits

- Implementing AES Encryption using Verilog

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 Electronic(18.33 / 20), Engineering Probability and Statistics(18.5 / 20), Linear Control Systems (19 / 20), VLSI (18.25 / 20), Computer Architecture (17.91 / 20)

PROGRAMMING AND APPLICATION 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
Data Analysis Tools	Jupyter Notebook
Document Preparation	LaTex, Microsoft office, Prezi

LANGUAGES

English	Fluent
Persian	Native
Arabic	Basic
German	Basic

HOBBIES AND INTERESTS

- ♪ Listening to music and dancing
- ≈ Swimming
- ✧ Travelling