

Ali Satvaty

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? Research Interests

Natural Language Processing, Deep Learning, Machine Learning, Artificial Intelligence

🎓 Education

M.Sc. in Artificial Intelligence and Robotics

2020 - Present

Expecting to graduate in Jan. 2023

Sharif University of Technology, Tehran, Iran (SUT)

- Currently Studying in the 4th semester with GPA 17.52/20
- Course Highlights: Natural Language Processing, Machine Learning, Deep Learning, Digital Signal Processing, Speech Recognition, Artificial Intelligence

B.Sc. in Control and Robotics - Electrical Engineering

2014 - 2019

Graduated among the top students

Tehran University, Iran (UT)

- Graduated with GPA 17.02/20
- Course Highlights: Advanced Programming, Microprocessors, Advanced Control Systems, Computer Architecture, Linear Algebra

🏆 Honors and Awards

Ranked 12th between 35,000 in Iran national master's entrance exam 2020

Received scholarship from faculty of Engineering as an exceptional talent student. 2018

Ranked 1st in Sharif University of Technology's Bot Cup contest. 2018

Received scholarship from faculty of Engineering as an exceptional talent student. 2017

Ranked 194th between 200,000 in Iran national University Entrance Exam (Konkour) 2016

Membership in National Organization for Development of Exceptional Talents (NODET) 2007-2014

📜 Certificates

Neural Networks and Deep Learning [Coursera](#)

Natural Language Processing with Classification and Vector Spaces [Coursera](#)

Natural Language Processing with Sequence Models [Coursera](#)

📄 Research Background

Research on "Conversational Question Answering"

Jan. 2021 - Present

I am currently working on this project as my M.Sc. thesis under the supervision of Prof. Hossein Sameti. In this project we are trying to enhance the history selection module, presented in the conversational question answering systems.

SUT

Research on "3-DoF Delta Robot"

July 2020 - Oct. 2020

I worked on this project as my B.Sc. internship task under the supervision of Prof. Mehdi Tale Masouleh. In this project, especially I was working on the artificial intelligence part of the system. At first, we created a conveyor belt system, and then we designed a vision system for the process of pick-and-place. The robot was able to detect special but simple objects using image processing in Matlab and pick them up using suction.

UT

Experiences

Freelance Python Developer

2017 - present

I have done lots of projects as a freelancer, most of which being web development. Some of my projects are open-source and available in my GitHub.

Internship, Backend Developer

2019

I spent a 5 months internship in Idearun co. as a backend developer. In my internship program, I worked on two web projects.

Idearun co.

Teaching Assistant

Security in Machine Learning

2021

Dr. Rohban

SUT

Communication Systems I

2017

Dr. Abbasfar

UT

Linear Control Systems Laboratory

2016

Dr. Abbasian

UT

Electrical Circuits I Laboratory

2015

Dr. Rashed Mohassel

UT

Related Course Projects

Speech Recognition

Dr. Sameti

> Emotion recognition from speech

Natural Language Processing

Dr. Bokaie

> Smart chat-bot implementation using retrieval and generative methods.

Advanced Programming

Dr. Khosravi

> Design and programming of an Uber-like taxi reserving system.

Microprocessors

Dr. Fatemi

- › Designing and implementing an Automatic Vacuum Cleaner

Industrial Control

Dr. Kalhor

- › Stabilization of a balls' height in a vertical pipe

Digital Logic Design

Dr. Navabi

- › Implementing a digital oscilloscope on FPGA

Skills

Languages Persian (Native), English (TOEFL 99)

Programming Python, C++/C, Javascript, MATLAB

Machine Learning Transformers, Huggingface, Pytorch, Trax, NumPy, pandas, scikit-learn, matplotlib

Software & Tools Microsoft Office, Photoshop

Web React, Django

Databases MySQL, PostgreSQL, Redis, MongoDB, Sqlite

Operating Systems Linux, Windows

Others Latex, Git

Reference Contacts

✉ **Prof. Hossein Sameti** sameti@sharif.ir

Professor, Department of Computer Engineering, Sharif University of Technology

✉ **Prof. Mehdi Tale Masoule** m.t.masouleh@ut.ac.ir

Professor, Department of Electrical and Computer Engineering, Tehran University of Tehran