

# Amirhossein Barari

+989374228889 | amirhosseinbarari@ut.ac.ir | linkedin.com/in/amirhossein-barari | ahbarari.github.io

## EDUCATION

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### B.Sc. in Computer Engineering

2016 - 2020

*University of Tehran*

- **Overall GPA:** 3.49/4 (16.79/20)
- **Last two-year GPA:** 3.78/4 (17.53/20)
- **Thesis Title:** Activity Recognition System Based on Mobile Sensors
- **Thesis Grade:** 19/20
- **Supervisor:** Dr. Kazim Fouladi

## RESEARCH INTERESTS

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- Artificial Intelligence/Machine Learning/Deep Learning
- Software Engineering
- Programming Language
- Algorithms

## AWARDS & HONORS

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- Ranked within the top 3% among more than 162,000 participants in Iranian University Entrance Exam
- Full scholarship from University of Tehran (tuition waiver)

## ACADEMIC PROJECTS

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### Activity Recognition System Based on Mobile Sensors | *Python, C++, pandas, Matplotlib, Scikit-learn, Qt*

- Bachelor's degree final project
- This Project consists of two main parts: Machine Learning and Application Development
- In the machine learning part, I used python language and its great libraries for data manipulation and data visualization and classification such as Pandas, Matplotlib and Scikit-learn.
- There are two applications for mobile and desktop in this project. I developed the desktop application with Qt which is based on C++ language.

### Overlapping Community Detection | *C++*

- Big Data course final project
- Implementation of "Overlapping community detection at scale: A nonnegative matrix factorization approach" article in a group of 5 people.

### Garam Puzzle | *Python*

- Artificial Intelligence course project
- a constraint satisfaction problem implemented in python

### Wumpus World | *Prolog*

- Artificial Intelligence course project
- a popular problem implemented in prolog

### Linux Shell | *C*

- Operating System Lab project
- a simple Linux shell implemented in C

### Othello | *C++*

- Fundamentals of Computer and Programming course final project
- Othello game implemented in C++

### Flight Booking System | *C++*

- Fundamentals of Computer and Programming course final project
- Flight booking system in terminal environment implemented in C++

## TEACHING EXPERIENCE

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### Design of Algorithms Teaching Assistant

Fall 2018

*University of Tehran*

- **Course Professor:** Dr. Zahra Movahedi

## WORK EXPERIENCE

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### Python Developer

June 2019 – Present

*Mediasoft*

- Using python language and frameworks like Django and Flask
- Write and Test APIs both functional and class-based with Django Rest framework
- Write scripts with python for web scrapping

### Front-End Developer

Jan 2017 – Dec 2018

*IranhomeTravel*

- IranhomeTravel is a startup about accommodations of tourists that three of my colleagues and I started and We have been worked on it.
- Developed with common Front-End Technologies like HTML, CSS, Bootstrap and JS

## TECHNICAL SKILLS

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**Languages:** Python, C/C++, Prolog

**Frameworks:** Django, Flask, Qt

**Libraries:** NumPy, pandas, Matplotlib, Scikit-learn, OpenCV

**Web/DB technologies:** HTML, CSS, JavaScript, PostgreSQL

## LANGUAGE

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**Persian:** Native

**English:** Fluent (IELTS: to be taken on January 16th, 2021)