

# Ali Tabaraei

**Website:** tabaraei.com

**LinkedIn:** linkedin.com/in/tabaraei

**GitHub:** github.com/tabaraei

**Email:** ali.tabaraei@gmail.com

**Phone:** (+98) 938 878 7118

## EDUCATION

### B.Sc. in Computer Engineering

*Sadjad University of Technology*

Sep. 2016 – Sep. 2020

*Mashhad, Iran*

- **Last-two-year GPA:** 19.32/20 (3.96/4)
- **CGPA:** 17.85/20 (3.64/4)
- **Thesis:** Model-Based Collaborative-Filtering Recommender System to recommend top 5 movies for all users
- **Thesis Grade:** 19/20 (4/4), under the supervision of *Dr. Javad Hamidzadeh*

## AWARDS AND HONORS

- **Ranked 2<sup>nd</sup> GPA** among the graduating class of 168 students at the end of Bachelor's, *Computer and Information Technology Department, Sadjad University of Technology, Mashhad, Iran, 2020*
- **Reached final stage** of the 25<sup>th</sup> **National Computer Olympiad** in Iran (the final competition was not held due to the COVID-19 pandemic), *Mashhad, Iran, 2020*

## RESEARCH INTERESTS

- Machine Learning
- Deep Neural Networks
- Computer Vision
- Recommender Systems
- Data Mining

## SELECTED COURSES AND GRADES

- **Artificial Intelligence**, *Dr. Reza Shamsaee*, 20/20 (4/4)
- **Computational Intelligence**, *Dr. Amir Farid Aminian Modarres*, 20/20 (4/4)
- **Multimedia Systems**, *Dr. Boshra Rajaei and Dr. Behzad Bakhtiari*, 20/20 (4/4)
- **Data Mining**, *Dr. Javad Hamidzadeh*, 20/20 (4/4)
- **Computer Vision**, *Dr. Amir Farid Aminian Modarres*, 19.85/20 (4/4)

## TEACHING EXPERIENCE

- **Course Instructor** May 2020 – Jul 2020  
*Mobile Application Development with Flutter* [\[YouTube\]](#) *Part-Time*
- **Teaching Assistant** Sep 2017 – Jan 2020  
*Sadjad University of Technology, Mashhad, Iran* *Part-Time*  
(Tutored and guided over 400 students for a total of approximately 170 hours)
  - Artificial Intelligence, under the supervision of Dr. Reza Shamsaee (2 separate classes)
  - Algorithms Design, under the supervision of Dr. Javad Hamidzadeh (2 separate classes)
  - Algorithms Design, under the supervision of Dr. Mahdi Salkhorde Haghighi (1 class)
  - Discrete Mathematics, under the supervision of Dr. Saeed Yazdani (2 separate classes)

## INDUSTRY EXPERIENCE

---

- **Data Mining and Machine Learning Developer** Feb 2021 – Present  
*Khorasan Science and Technology Park* [\[website\]](#)  
Full-Time
  - Gained experience with the most popular Data Science libraries in Python, such as NumPy, Pandas, Scikit-Learn, TensorFlow, Matplotlib, Seaborn, and many more, to manipulate and analyze the data, preprocess and visualize the data, train and test the models, and deploy them
  - Handled SQL queries from Python on different RDBM's, such as MySQL, SQL-Server and SQLite
  - Developed Python scripts to automate installation and execution of some projects as a Windows service or Linux daemon, or running them on a Docker container
- **Flutter Developer** Jan 2020 – Sep 2020  
*Arashweb LLC.* [\[website\]](#)  
Internship
  - Developed a mobile application in the field of literature and Iranian poets from scratch
  - Used the cutting-edge techniques such as JWT token-based authentication and BloC design pattern

## LEADERSHIP EXPERIENCE

---

- **Head of article layout team** at executive committee in the 6<sup>th</sup> Conference on *Signal Processing and Intelligent Systems (ICSPIS 2020)*, *Sadjad University of Technology*, 2020 [\[website\]](#)
- **Executive team leader** at 5<sup>th</sup> *Sadjad I/O event*, *Sadjad University of Technology*, 2018

## ACADEMIC PROJECTS

---

### Object Oriented Internet course | *C, Python, Django, Flutter* [\[GitHub\]](#)

- Designed and developed an intelligent system to monitor and control a remote greenhouse
- Track and control hardware via mobile application, Telegram bot, and text message (SMS)

### Multimedia Systems course | *MATLAB* [\[GitHub\]](#)

- Implemented a speech recognition application in MATLAB to recognize different audio categories with supervised learning, using SVM classifier
- Used MATLAB app designer to create an application with user interface

### Computational Intelligence course | *MATLAB, Python* [\[GitHub\]](#)

- Developed several neural network algorithms, including Genetic, MLP, Adaline, and Perceptron

### Web Programming course | *ASP.NET MVC5, HTML, CSS, JavaScript* [\[GitHub\]](#)

- Developed a website with authentication and authorization methods, email service, input validation, security control, database management, and CRUD operations in the admin panel

## SEMINAR AND WORKSHOPS

---

### Workshop Participation

- **Deep Learning for Image Processing**, 6<sup>th</sup> Conference on *Signal Processing and Intelligent Systems (ICSPIS 2020)*, *Sadjad University of Technology*, one-day online workshop, 2020
- **Principles of Writing a Scientific Paper**, *Dentistry Department of Ferdowsi University of Mashhad*, two-week online workshop, 2020

### Course Presentation

- **Computer Vision course:** Presented a paper called “A computer vision system for defect discrimination and grading in tomatoes using machine learning and image processing”, 2020
- **Object Oriented Internet course:** A presentation was given on “what is API and how to connect a mobile application to embedded hardware core”, 2020
- **Presentation and Research Methodology course:** A presentation was given on “React-Native vs. Flutter framework for mobile application development”, 2019

## CERTIFICATES

---

- **Machine Learning in Python with Scikit-Learn** by *Inria on France Université Numérique MOOC Platform*  
Certificate earned on June 15, 2021 [\[credential\]](#)
- **Machine Learning** by *Stanford University on Coursera*  
Certificate earned on May 30, 2021 [\[credential\]](#)
- **Mathematics for Machine Learning** by *Imperial College London on Coursera*  
Certificate earned on November 29, 2020 [\[credential\]](#)
- **Statistics with Python** by *University of Michigan on Coursera*  
Certificate earned on November 19, 2020 [\[credential\]](#)

## TECHNICAL SKILLS

---

### Programming Languages:

Python MATLAB Dart C++ SQL

### Data Science Libraries:

Scikit-Learn Pandas NumPy Matplotlib Seaborn Streamlit

### Web and Application Frameworks:

Flutter Flask ASP .NET

### Softwares and Tools:

Anaconda Jupyter Notebook Visual Studio Arduino Microsoft Office Postman Git

## VOLUNTEER WORK

---

- Member of *Sadjad I/O* Student Group (student group to hold scientific events and conferences with the help of university faculty members), *Sadjad University of Technology*, 2017 – 2019
- Member of *Baran* Charity Student Group (student group to help homeless children with educational programs), *Sadjad University of Technology*, 2016 – 2018 [\[website\]](#)

## LANGUAGE

---

- **English:** Professional Working Proficiency  
– IELTS Academic will be taken on October 30, 2021
- **French:** Elementary Proficiency
- **Persian:** Native Proficiency

## REFERENCES

---

- *Dr. Javad Hamidzadeh*, Associate Professor at Computer and Information Technology Department, *Sadjad University of Technology, Mashhad, Iran*  
**Email:** J\_hamidzadeh@sadjad.ac.ir
- *Dr. Reza Shamsaee*, Assistant Professor at Computer and Information Technology Department, *Sadjad University of Technology, Mashhad, Iran*  
**Email:** r\_shamsaee@sadjad.ac.ir
- *Dr. Behzad Bakhtiari*, Assistant Professor at Computer and Information Technology Department, *Sadjad University of Technology, Mashhad, Iran*  
**Email:** bakhtiari@sadjad.ac.ir