

# Ali Tabaraei

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## 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
- Recommender Systems
- Deep Neural Networks
- Cybersecurity
- Computer Vision

## SELECTED COURSES AND GRADES

- **Artificial Intelligence**, *Dr. Reza Shamsaei*, 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**  
*Mobile Application Development with Flutter* [[YouTube](#)]  
May 2020 – Jul 2020  
Part-Time

- **Teaching Assistant**  
*Sadjad University of Technology, Mashhad, Iran*  
Sep 2017 – Jan 2020  
Part-Time

(Tutored and guided over 400 students for a total of approximately 170 hours)

- Artificial Intelligence, under the supervision of *Dr. Reza Shamsaei* (2 separate classes)
- Algorithms Design, under the supervision of *Dr. Javad Hamidzadeh* (2 separate classes)
- Algorithms Design, under the supervision of *Dr. Mahdi Salkhorde Haghghi* (1 class)
- Discrete Mathematics, under the supervision of *Dr. Saeed Yazdanian* (2 separate classes)

## INDUSTRY EXPERIENCE

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- **Data Mining and Machine Learning Developer** Feb 2021 – Present  
*Full-Time*  
*Khorasan Science and Technology Park* [[website](#)]
  - Retrieved, cleaned, preprocessed, and analyzed tabular/textual data
  - Developed several supervised and unsupervised learning algorithms
  - Handled SQL queries on different RDBMs (MySQL, SQL-Server, SQLite)
  - Visualized or represented data using web applications or web APIs
  - Automated installation/execution of projects using Linux daemons, Windows services, or Docker containers
  
- **Flutter Developer** Jan 2020 – Sep 2020  
*Internship*  
*Arashweb LLC.* [[website](#)]
  - Developed a mobile application in Flutter, using BloC design pattern and JWT token-based authentication

## LEADERSHIP EXPERIENCE

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- **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

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### “Object Oriented Internet” Course | *C, Python, Django, Flutter* [[GitHub](#)]

- Designed an IoT system to track and control a remote greenhouse 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

### “Web Programming” Course | *C#, 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

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### 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

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- **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

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### Programming Languages:

[Python](#) [MATLAB](#) [Dart](#) [C++](#) [JavaScript](#) [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](#) [Arduino](#) [LATEX](#) [Microsoft Office](#) [Postman](#) [Git](#)

## VOLUNTEER WORK

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- Member of *Sadjad I/O* Student Group (student group holding 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 helping homeless children with educational programs), *Sadjad University of Technology*, 2016–2018 [[website](#)]

## LANGUAGE

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- **English:** Professional Working Proficiency
  - IELTS Academic: Overall 7 (L:6.5, R:8, S:7, W:7)
- **Persian:** Native Proficiency

## REFERENCES

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- Dr. Javad Hamidzadeh, Associate Professor at Computer and Information Technology Department, *Sadjad University of Technology, Mashhad, Iran*  
**Email:** [J\\_hamidzadeh@sadjad.ac.ir](mailto:j_hamidzadeh@sadjad.ac.ir)
- Dr. Reza Shamsaei, Assistant Professor at Computer and Information Technology Department, *Sadjad University of Technology, Mashhad, Iran*  
**Email:** [r\\_shamsaei@sadjad.ac.ir](mailto:r_shamsaei@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](mailto:bakhtiari@sadjad.ac.ir)