

Ali Tabaraei

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EDUCATION

- B.Sc. in Computer Engineering** Sep. 2016 – Sep. 2020
Sadjad University of Technology *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 2nd 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 25th **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
- Cybersecurity

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 Rajaee 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 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

- **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

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

ACADEMIC PROJECTS

“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

Workshop Participation

- **Deep Learning for Image Processing**, 6th 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++](#) [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

- 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

- **English:** Professional Working Proficiency
 - IELTS Academic: Overall 7 (L:6.5, R:8, S:7, W:7)
- **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 Shamsaei*, Assistant Professor at Computer and Information Technology Department, *Sadjad University of Technology, Mashhad, Iran*
Email: 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