

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 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 Learning
- Pattern Recognition
- Computer Vision
- Recommender Systems

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)*

ACADEMIC PROJECTS

Internet of Things 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 "Hi" from "Bye" 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 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

INDUSTRY EXPERIENCE

- **Data Mining and Machine Learning Engineer** 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 an 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
- **Flutter Developer** Jul 2019 – Sep 2019
White Designers Studio [\[website\]](#)
Internship
 - Developed an application in the field of health and wellness
 - Offered a better user interface plan for new application to the team

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)
 - Algorithm Design, under the supervision of Dr. Javad Hamidzadeh (2 separate classes)
 - Algorithm Design, under the supervision of Dr. Mahdi Salkhorde Haghighi (1 class)
 - Discrete Mathematics, under the supervision of Dr. Saeed Yazdanian (2 separate classes)

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

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 [\[credential\]](#)
- **Introduction to Machine Learning** by Duke University on Coursera
Certificate earned on April 28, 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 Postman Git

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
- **Internet of Things course:** A presentation was given on “what is API and how to connect a mobile application to embedded hardware core”, 2020
- **Seminar course:** A presentation was given on “React-Native vs. Flutter framework for mobile application development”, 2019

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
- **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