

Ali Tabaraei

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EDUCATION

B.Sc. in Computer Engineering <i>Sadjad University of Technology</i>	Sep. 2016 – Sep. 2020 <i>Mashhad, Iran</i>
<ul style="list-style-type: none">• 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 <i>Dr. Javad Hamidzadeh</i>	

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
- Computer Vision
- Deep Learning
- Recommender Systems
- Pattern Recognition

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)

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 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 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 Shamsaei (2 separate classes)
 - Algorithm Design, under the supervision of Dr. Javad Hamidzadeh (2 separate classes)
 - Algorithm Design, under the supervision of Dr. Mahdi Salkhorde Haghghi (1 class)
 - Discrete Mathematics, under the supervision of Dr. Saeed Yazdianian (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 Microsoft Office 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 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*
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