

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:** 19.21/20 (3.96/4)
- **CGPA:** 17.85/20 (3.64/4)
- **Thesis Title:** Implementing a classifier to recommend top 5 products in a recommender system
- **Thesis Grade:** 19/20 (4/4)
- **Thesis Description:** Used Matrix-Factorization Model-Based Collaborative-Filtering approach on *MovieLens 20M dataset* to implement a recommender system which recommends top 5 movies for every single user, 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
- **Ranked 39th** in **FUM Collegiate Programming Contest (FCPC 2019)** among more than 500 nationwide teams, *Ferdowsi University of Mashhad, Mashhad, Iran*, 2019
- Ranked within the **top 6%** among approximately **160,000 participants** in the **Iranian University Entrance Exam** for Bachelor's degree in Computer Engineering, *Mashhad, Iran*, 2016

RESEARCH INTERESTS

- Machine Learning
- Deep Learning
- Soft Computing
- Recommender Systems
- Big Data Analytics

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 Rajaeei 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

Khorasan Science and Technology Park [[website](#)]

Feb 2021 – Present
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
- Used Python Flask framework to implement web-service API's and run the project on docker container
- Developed Python scripts to automate installation and execution of some projects as a Windows service or Linux daemon
- Handled SQL queries from Python on different RDBM's, such as MySQL, SQL-Server and SQLite
- Managed requests and queries with Postman and Insomnia applications
- Used GitLab for version control and team collaboration

• Flutter Developer

Arashweb LLC. [[website](#)]

Jan 2020 – Sep 2020
Internship

- Developed an application in the field of literature and Iranian poets from scratch
- Used the cutting edge JWT token-based authentication techniques
- Used the Bloc design pattern as a state management library to separate presentation from business logic, facilitating testability and reusability
- Implemented exception handling techniques to provide a reliable service under unexpectable circumstances
- Managed and tracked the tasks with Trello

• Flutter Developer

White Designers Studio [[website](#)]

Jul 2019 – Sep 2019
Internship

- Developed an application in the field of health and wellness
- Offered a better user interface plan for new application to the team
- Experienced my first programming team work

TEACHING EXPERIENCE

• Teaching Assistant

Sadjad University of Technology, Mashhad, Iran

Sep 2017 – Jan 2020
Part-Time

(Tutored and guided over 350 students for a total of approximately 160 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 Yazdanian (2 separate classes)

• Course Instructor

Mobile Application Development with Flutter [[YouTube](#)]

May 2020 – Jul 2020
Part-Time

LEADERSHIP EXPERIENCE

- Head of paper 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

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
- Mobile Application Development with React-Native, Scientific Society of Sadjad University of Technology, two-week workshop, 2018

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

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:

NumPy Pandas Scikit-Learn Matplotlib Seaborn Streamlit

Markup Languages:

L^AT_EX HTML Markdown

Web and Application Frameworks:

Flask Flutter ASP .NET

Softwares and Tools:

Anaconda Jupyter Notebook Visual Studio Arduino Postman Git Docker

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](#)]
- Member of *MehrYaran* Charity Group (a charity group to support older people and people with disabilities), *private group*, 2016 – 2017

LANGUAGE

- **English:** Professional Working Proficiency
 - IELTS Academic Will be taken on August 21, 2021
 - GRE General Will be taken on November 1, 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](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
- Dr. Behzad Bakhtiari, Assistant Professor at Computer and Information Technology Department
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