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
- Data Mining

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)

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)
  - Algorithms Design, under the supervision of *Dr. Javad Hamidzadeh* (2 separate classes)
  - Algorithms Design, under the supervision of *Dr. Mahdi Salkhorde Haghighi* (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
  Khorasan Science and Technology Park [website]   *Full-Time*
    - 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
  Arashweb LLC. [website]   *Internship*
    - 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++ | 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)
- **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