Alireza Abbaszadeh | Address: Mashhad, Iran

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Education
Bachelor in Computer Engineering with a major in Artificial Intelligence, January 2018 – August 2023

Graduated from Islamic Azad University of Mashhad (IAUM), Mashhad, Iran **GPA:** 3.5 / 4 **or** 17.15 / 20
According to the Center for World University Rankings **(CWUR)** *Islamic Azad University* **(IAU)**
is ranked **first** *in Iran with a* **global rank** *of* **342** *and a* **research** *rank of* **304.** **cwur.org**

Outstanding Academic Achievements
Consistent Academic Excellence: Achieving the highest possible **score of 4.0 in 24 courses** *during my undergraduate program,*
including 21 key and relevant subjects

3 Graduate Rank Certification at University:
- Achieved **_FIRST_** place among the graduates of the summer semester of the 2023 academic year.
- Ranked **_FIRST_** among 34 peers in the same major and entry
- Ranked **_FIRST_** among graduates of class.

24 Grades: 4 / 4

1. Artificial Intelligence and Expert Systems
2. Fundamentals of Computational Intelligence
3. Discrete Mathematics
4. Database Laboratory
5. Operating Systems Laboratory
6. Microprocessor Laboratory
7. Systems Analysis and Design
8. Software Engineering
9. Management Information Systems
10. Data Mining Fundamentals
11. Computer Networks
12. Computer Architecture
13. Microprocessor and Assembly Language
14. Computer-Aided Digital Systems Design
15. Physics 2
16. Specialized Language
17. Computer Workshop
18. Software Project
19. Language and Speech Processing
20. Internship
21. Computer Workshop

Research Interests

1. Researcher in Artificial Intelligence, 2019future
2. Optimization algorithms in AI applications.
3. Computer vision techniques for dynamic image analysis.
4. Development of scalable machine learning models for data prediction.
5. Explore Metaheuristic Algorithms
6. Conduct Could computing task and task scheduling with HEFT
7. explore Machine Learning algorithms'

Publications

1. co-author: Currently developing a research paper on the "WOA-HEFT" hybrid algorithm, targeting publication in **2024**

Conferences

1. Cybersecurity Management Conference (IAUM 2023)
2. Machine Learning Conference (IAUM 2021) Participation in workshops focused on machine learning applications and advancements.

Presentations

1. Strategic Presentation on 'Concepts of Programming Languages book' In Course of Programming Language Design Tailored PowerPoint Development for Educational Impact

2. Functional Language Programming (Course: Programming Language Design)

3. Machine Vision and Robotics (Course: Robotics Principles)

4. (2021-2022) Presented the Spherical Hidden Markov Model (SHMM) paper and executed the associated code on Linux during AI and Computational Intelligence course sessions.
5. Management Information Systems
6. Computer Networks
7.

Academic Projects at IAUM

1. **March – August 2023 Publications :Enhancement of Cloud Computing Efficiency with WOA-HEFT Hybrid Algorithm (Project Lead) (python)**

- **Conceived** and **initiated** the integration of Whale Optimization Algorithm (WOA) with HEFT (Heterogeneous Earliest Finish Time) scheduling to create a pioneering hybrid algorithm aimed at optimizing cloud computing environments**.**

- **Developed** and **implemented** advanced bio-inspired strategies, utilizing the foraging behaviors of humpback whales to significantly improve task allocation and resource scheduling**.**
- **Engineered** a simulation environment to rigorously **test** and **evaluate** the effectiveness of the WOA-HEFT hybrid algorithm under various operational conditions**.**
- **Analyzed** data to extract meaningful insights, leading to substantial improvements in processing speeds and resource efficiency**.**
- **Results** will be **presented** at major academic forums, demonstrating the algorithm's potential to enhance cloud computing operations and its applicability in real-world scenarios**.**

2. **July-2023, Thesis: Enhancing Efficiency in Recommender Systems Through Advanced Preprocessing and Apache Spark**

- **Investigated** foundational principles of three main types of recommender systems**.**

- **Developed** advanced preprocessing techniques that increased data processing speeds by 300 times**.**
- **Integrated** Apache Spark, multiplying processing gains tenfold**.**
- **Achieved** a cumulative 3000-fold increase in system efficiency**.**

3. **June-2023, leaded In internet engineering the development of advanced web-based databases** for the agricultural industry using Django, REST APIs, and SQL Server, enhancing data management and security.

4. **May-2023 In a Computer Vision course, advanced object detection algorithms** were optimized to develop a high-precision image panorama tool. This project, concluding a series of ten, successfully demonstrated the capability to seamlessly integrate multiple images into panoramic views through rigorous testing and team collaboration.

5. **January-2022 Development of a Personalized Movie Recommendation System Using K-Nearest Neighbors (KNN):** I developed a personalized movie recommendation system using the K-Nearest Neighbors (KNN) algorithm. This project focused on accurately aligning movie suggestions with individual use preferences by effectively analyzing user data. The system was crafted to provide precise and relevant movie recommendations, illustrating the practical application of KNN in academic settings.

Leadership and Academic Innovation 2021-2023

- **Led** student project Management to Improve evaluation methods, which **resulted** in higher academic standards.
- **Provided** specialized and personalized guidance, **enhancing** students' research skills.

- Also, by **organizing** key academic events, I **facilitated** the enrichment of the intellectual community and **supported** the enhancement of educational sessions through the **management** of technical and logistical aspects of faculty presentations.

Industry

1. **2018**-**future**, full time and part time At **GRAPH** Companies, instrumental in deploying a six-module BPMS suite, advancing our systems to new heights of efficiency, a key factor in our **recognition** as the country's **top** tech firm, an **honor** acknowledged by the **President** (**BPMS**)(**Cybersecurity**)(250+ employees)

2. **2017**, Full-stack Web developer, Freelancing web developer.

3. **2015**, Android Developer, Initiated and developed Android applications.

Skills

Technical Skills:

- Business Process Management System (BPMS)
- Data Analysis
- Python
- SQL3
- Apache Spark
- C++
- Java Android
- HTML5
- CSS3
- MATLAB
- Computer Vision
- Algorithm Optimization
- PHP

Libraries:

- Django
- Matplotlib
- NumPy
- MealPy
- Pandas
- Laravel
- Bootstrap
- jQuery

Soft Skills:

- Leadership
- Project Management
- Strategic Planning
- Problem-Solving

Certificates

1. Pre Bachelor of mathematics.   **2018**
2. Advanced Web Development, UI / UX | Back-End.   **2018**
3. Diploma of Mathematics.   **2014-2017**
4. Solo Learn Certificates (HTML5, CSS3, C++).   **2017**
5. Java Android Development Certificate.   **2016**

Internship & Co-op

- Developer Intern, Graf Company Technology Inc., Mashhad, Iran, Summer   **2022**

Memberships & Activities

- Invited to join the science association of computer faculty.
- Artificial intelligence and block-chain community's

Hobbies & Interests

- Advanced Competitive Programming,
- Researching Cutting-Edge of Artificial General Intelligence
- Chess Master
- Piano
- Guitar

Referee

1. dr. moatar (1)
2. dr.sheibani
3. dr.forqani
4. nona helmi
5. dr. kimiay (3)
6. dr. baloochian (2)
7. dr. Ali shahi (1)
8. CEO of GRAPH.vafaiee (1)
9. Fundamentals of Computational Intelligence (1)

Languages

Persian Native

English IELTS

Writing:6 Reading:6

Listening:6 Speaking: 6