# Mohammadhossein Naderi

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## Research Interests

- Natural Language Processing, Machine Learning, Text Mining

## Education

- **Amirkabir University of Technology**, Tehran, Iran                                     2017 – present
  B.Sc. in Computer Engineering (Artificial Intelligence)
  GPA: 17.23/20

- **National Organization for Development of Exceptional Talents**, Tehran, Iran       2013 – 2017
  Diploma in Mathematics and Physics
  GPA: 19.20/20

## Research Experience

- **Relearning The Nvidia GameGAN For New Games**                                         Summer 2021
  *Institute For Research In Fundamental Sciences (IPM), Tehran, Iran*

  Supervisor: Prof. Dara Rahmati

  This project aims to setup and relearn the Nvidia GameGAN to new games such as soccer stars to find feasibility of learning the physics rules by GameGAN. To achieve this goal, learning the details of GameGAN and finding enhancement opportunities is our priority.

## Teaching Assistance

- **Algorithm Design, Amirkabir University of Technology, Tehran, Iran**                   Winter 2019
  *Supervisor: Prof. Sara Bourbour*

  Designing and Grading Assignments and Projects and Writing Solutions for Assignments.

## Work Experience

- **Full Stack Developer**, FANAP Telecom, Tehran, Iran                     December 2020 – June 2021
  Implementing Software Services Used in Telecommunication Business.
  Technologies: Java, Spring, AngularJS, MySQL

- **Data Science Intern**, Hesaba Co, Tehran, Iran                   September 2020 – November 2020
  Learning Fundamentals of Data Science.
  Technologies: R Programming Language, dplyr, Sparklyr, ggplot2

- **QA Engineer Intern**, Pinket, Tehran, Iran                             June 2020 – September 2020
  Learning Fundamentals of Quality Assurance Engineering.
  Technologies: Java, Appium, Selenium, Jenkins, Gradle

## Related Course Projects

- Sentiment Analysis of Tweets Using Logistic Regression and Naive Bayes
- Predicting Relationship Between the Words Using Word Vectors
- Machine Translation Using Word Embedding and Locality Sensitive Hashing
- Implementing a Search Engine for Persian Documents Using TF-IDF

## Related Courses

- **Algorithmics and Artificial Intelligence**
  - Natural Language Processing with Classification and Vector Spaces (Course Certificate)
  - Information Retrieval (17/20)
  - Principles and Applications of Artificial Intelligence (20/20)
  - Algorithm Design (20/20)

- **Software Engineering and Programming**
  - Principles of Computer and Programming (20/20)
  - Advanced Programming (19/20)
  - Web Programming (20/20)
  - Software Engineering I (17.75/20)
  - Software Engineering II (20/20)
  - Software Testing (18.8/20)

- **General Mathematics and Engineering**
  - Applied Linear Algebra(18.19/20)
  - Discrete Mathematics (18.5/20)
  - Probability and Statistics (18.4/20)

## Honors and Awards

- Placed Top 0.5% in The Nationwide University Entrance Exam (Bachelor's), *August 2017*.

- Ranked 1$^{st}$ Among All Freshmen in the Amirkabir University of Technology International Collegiate Programming Contest (AUT-ICPC), *October 2017*.

- Ranked 2$^{nd}$ in the Computer Engineering General Skills Contest at Amirkabir University of Technology, *July 2020*.

- Selected as a Member of the University Team for the National Scientific Olympiad in Computer Engineering, *June 2021*.

- Qualified for the 2$^{nd}$ Round of Iranian National Olympiad in Informatics, *2014*.

## Relevant Skills

- Programming Languages: Python, Java, C, C++, R, Racket

- Database Systems: MySQL, SQLite, Hibernate, PostgreSQL

- Web Technologies: HTML, CSS, JavaScript, JQuery, PHP, Angular, React, Spring Boot, Node.js, Express.js

- Documentation: LaTeX, MS Office

- Human Languages: Persian (Native), English (Fluent; TOEFL will be taken soon)