

# Abolfazl Aghdaee

Kashan, Iran

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✉ Email

🌐 LinkedIn

🐙 GitHub

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## RESEARCH INTERESTS

- Machine Learning
- Data Mining
- Neural Networks

## EDUCATION

**B.Sc. in Computer Science**

*University of Kashan*<sup>1</sup>

Sep 2019 – 2024

Kashan, Iran

Total GPA: 3.65/4

**Relevant Coursework (All 'A' Grades):** Data Mining, Artificial Intelligence, Numerical Linear Algebra, Principles of Computational Intelligence, Fundamentals of Numerical Analysis, Elementary of Probability Theory, etc.

## PUBLICATION & POSTER

**Finding the Wiener Index of Polythiophene Graph and Providing a Third-Degree Polynomial.**

*The 4<sup>th</sup> International Conference on Computational Algebra, Computational Number Theory, and Applications.*

- In this research, innovated a novel algorithm using Python to ascertain the corresponding matrix of the Polythiophene graph.
- **Authors:** Abolfazl Aghdaee, Dr. Gh Fath-Tabar.

**Ventilation Fan Fault Diagnosis With Audio Signal Processing by Machine Learning.**

*In Progress*

## HONORS & AWARDS

- Ranked 1st among all students of B.Sc. in Computer Science entered in 2019, University of Kashan.
- Elected as a member of the Data Science Association by direct vote of students.
- Nominated as a candidate for the prize of Best Undergraduate Researcher at the University of Kashan.

## TEACHING EXPERIENCES

**Teaching Assistant**

*Topics on Computer Science*

Jan 2024 – Jun 2024

University of Kashan

- Responsibilities: Tutoring students within the classroom.

**Teaching Assistant**

*Principles of Theory of Computation*

Jan 2023 – Jun 2023

University of Kashan

- Responsibilities: Tutoring students within the classroom, Helping students with their assignments, Preparing homework, and grading them. [🔗](#)

**Teaching Assistant**

*Data Structures*

Oct 2022 – Jan 2023

University of Kashan

- Responsibilities: Tutoring students within the classroom, Preparing homework, and grading them.

**Python Tutor**

Aug 2022 – Oct 2023

Yasan Academy, Tehran

- I instructed students in Python programming, providing comprehensive guidance through assignment reviews and performance analysis during weekly sessions.

**Teaching Assistant**

*Computer Programming & Lab*

Jan 2022 – Jun 2022

University of Kashan

- Responsibilities: Tutoring students within the classroom, Helping students with their assignments, Preparing homework, and grading them.

<sup>1</sup>Ranked 2<sup>nd</sup> in Citation Criteria among all Public State Universities of Iran.

The 4<sup>th</sup> higher education institute among all National Universities in December 2022-January 2023 in number of publications, considering the Median Impact Factor or MIF. Since 2019, University of Kashan has managed to keep first place in THE Young University Rankings among all Public State Universities of Iran.

## SKILLS

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**Languages:** Python, Familiar With: C, C++, R, JavaScript

**AI Packages:** Tensorflow, Keras, Pytorch, ScikitLearn, Numpy, Pandas, Flask, Seaborn, OpenCV, Flask, Matplotlib

**Technologies/Frameworks:** Linux, YOLOv7, Bootstrap, HTML, CSS, XML, Git, SQL Server, Jupyter Notebook, L<sup>A</sup>T<sub>E</sub>X

## EXPERIENCES

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### Data Science Virtual Experience Programme [↗](#)

Aug 2023

*British Airways - Forge*

- Performed sentiment analysis on customer reviews to classify them, utilized BeautifulSoup for web scraping and data extraction, and developed classification models to predict customer buying behavior.

### AI Summer School [↗](#)

Jun 2023 – Jul 2023

*Climate Change AI*

- A four-week program to educate participants with AI or climate change backgrounds on using AI to tackle climate issues. Focused on machine learning and neural networks for climate solutions.

## INTERNSHIP

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### Machine Learning Intern

Jun 2023 – Jul 2023

*Energey Research Institute*

*Kashan*

- Gained hands-on experience in data cleaning, transformation, and feature engineering, enhancing model performance, while effectively applying traditional machine learning algorithms using Scikit-Learn to address real-world data challenges.

### Front-end Intern

Jun 2019 – Aug 2019

*DGSA IT*

*Kashan*

- Collaboratively developed an application for GameNet (rental game console center) to improve customer management, streamline processes, and enhance staff efficiency.

## PROJECTS

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### Sentiment Analysis of British Airways Customer Reviews.

[Link to GitHub](#) [↗](#)

### Image Classification Using Neural Networks.

[Link to GitHub](#) [↗](#)

### Fashion Recommendation Using Fashion Pictures.

[Link to GitHub](#) [↗](#)

[🔗 Relevant more projects](#) [↗](#)

## ONLINE COURSES

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### Deep Neural Networks with Pytorch.

*IBM, Coursera*

### Deep Learning Specialization.

*Andrew Ng, Coursera*

### Convolutional Neural Networks.

*Andrew Ng, Coursera*

[🔗 Other courses](#) [↗](#)

## VOLUNTEERING

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### Member of Data Science Association

Oct 2023 – Present

*Data Science Association University of Kashan* [↗](#)

*Kashan, Iran*

- A student-managed association at the University of Kashan focused on knowledge exchange in Data Science and AI. Hosts expert-led webinars and regularly shares updated content.

### Tourist Guide

Jan 2019 – Present

*Couchsurfing International*

*Kashan, Iran*

- Couchsurfing is a platform for communication between tourists and locals. I have been active on this platform, guiding tourists who visit my city and country.

### Educational Advisor

Aug 2019 – Oct 2019

*Arman Group (under supervision of Lernitoo Institute)*

*Kashan, Iran*

- Offered study guidance, learning support, and advisory services for high school students, supervised by Lernitoo Institute, aimed at financially disadvantaged students.

LANGUAGES

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Persian: Native proficiency

English: Full professional proficiency

TOEFL Score: To be taken soon

REFERENCES

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 Available upon your request.