# Mohammadamin Ahanin

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⬡ GitHub: /mohAhanin    in LinkedIn: /in/mohammadamin-ahanin/

🌐 Website: mohahanin.github.io/Portfolio-Webpage/    🎓 Google Scholar: bit.ly/ahanin-scholar

## EDUCATION

**Bachelor of Science in Computer Engineering**                *September 2021 - July 2025 (Expected)*
**Shiraz University of Technology**

- GPA: 16.23/20 (ranking in the top 20% of the class)
- Researcher at the Laboratory of Cognitive Science & Data Science
- Served as a Teaching Assistant for Database Course
- Deputy Secretary, The Artificial Intelligence Scientific Society

## HONORS

- Ranked in the top 1% of students in the nationwide university entrance examination

## RESEARCH INTERESTS

- Federated Learning
- Distributed Systems
- Medical Image Processing
- Natural Language Processing (NLP) & LLMs
- Disease Detection and Diagnosis
- Health Monitoring

## SELECTED CONFERENCE PRESENTATIONS

- Early Detection of Alzheimer's-like Behavior Using Deep Learning and Sensor Data in a Smart Home Environment
- Bridging Heterogeneous Data Silos: Vertical Federated Learning Approach with Additive Secret Sharing for Cardiovascular Prediction

## SELECTED PROJECTS

**Customer Churn Analysis and Prediction for Havayar Company**
Managed a Customer Churn Project addressing data quality challenges using machine learning techniques. Responsibilities included data analysis, feature identification, engineering, and cleaning. Performed data transformations and model development. Conducted hyperparameter tuning, model evaluation, and designed a retraining process. Oversaw deployment, platform selection, API creation for model access, and prepared comprehensive technical documentation.

**Litopia**
Performed data analysis for a laptop sales company, evaluated competitors' inventories for company improvement. Technologies used: Database design, SQL Queries, MySQL DBMS, Python, Machine Learning, statistics, Power BI, Web Scraping, and Git. My role included data extraction, web scraping, DSAR response using notebooks and Power BI dashboards, ML model design and optimization, problem-solving, data visualization, and data cleaning.

## PROFESSIONAL EXPERIENCES

**Data Science Internship atAriooteam**                         *September 2024 - March 2025*
Specializing in image processing tasks, including image segmentation and detection with SAM and YOLO models, parameter tuning, model Deployment, API, and machine learning tasks such as customer churn prediction and Documentation.

**Data Analysis Bootcamp Participant at Quera**                    *August 2023 - November 2023*
Participated in an intensive bootcamp, where I worked on industry-relevant data analysis projects, gaining experience in data extraction, cleaning, web scraping, DSAR responses, ML model design and debugging, and data visualization using technologies like pandas, regex, Beautiful Soup, numpy, SQL Server, MySQL, sklearn, keras, Power BI, and Git. Also participated in job interviews and placement opportunities.

## VOLUNTEERING

**Deputy Secretary – Artificial Intelligence Scientific Society**            *[April 2023 – April 2024]*
**Shiraz University of Technology**
Organized technical workshops, meetings, and interdisciplinary events focused on artificial intelligence. Collaborated with institutions such as Shiraz University of Medical Sciences to host events like AI in Ophthalmology. Supported ICPC contests, Python training courses, and content creation to promote learning and community engagement.

**Contributor – Software Section** *[March 2024 – Present]*
**Cyber Sutech Journal**, Shiraz University of Technology
Contributed to the Software section of the Cyber Sutech Journal — a student-led computer engineering publication.
Collaborated with a team to research, write, and edit articles focused on software trends, tools, and academic insights.

## SKILLS
- **Programming:** C++, C#, Java, Python, HTML
- **Data Analysis and Visualization:** Matplotlib, Seaborn, statistics, statistical tests, metric design, Power BI
- **Machine Learning:** Classical Machine Learning, Deep Learning, NLP, Image Processing
- **Some Tools and Libraries:** pandas, regex, numpy, TensorFlow, Keras, Git, Threads, Scikit-Learn, Beautiful Soup, Roboflow, OpenCV, FLOWER, EasyOCR
- **Languages:** English (Advanced – TOEFL exam scheduled for September 2025)

## REFERENCES

**Pirooz Shamsinejad**
Assistant Professor
E-Mail: p.shamsinejad@sutech.ac.ir

**Mohammad Zare**
Co-Founder of Ariooteam
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