

# Zeinab Satarian

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## Personal Profile

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I am Zeinab Satarian, a top-ranked student at Sharif University of Technology, with a profound interest in data mining, Machine Learning and Information Visualization. My fascination with data mining began at a university conference, where I witnessed how vast, chaotic data could be transformed into meaningful insights, and how I absorbed these complex concepts as easily as I used to enjoy my favorite picture storybooks as a child, even before I could read. The versatility and profound impact of data mining on various fields, from predicting financial trends to early disease detection, captivated me. Delving deeper, I explored clustering and classification algorithms, becoming engrossed in the challenge of improving model accuracy. The potential to uncover hidden patterns and make a tangible difference drives my passion. Pursuing a PhD in data mining and Information Visualization will allow me to develop innovative algorithms, tackle complex problems, and tell the story of data in innovative and compelling ways.

## EDUCATION

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### Sharif University of Technology

*Bachelor of Science in Computer Engineering,*

*June 2020 – Aug 2024*

## EXPERIENCE

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### Shahid Bahonar Copper Industries Co., Kerman

*June 2023 – Aug 2023*

*Internship*

- Developed a real-time facial recognition system to record employee attendance using computer vision models, improving accuracy by 30%.
- Improved data reporting by cleaning and organizing database data, which resulted in more accurate and insightful monthly reports.
- Enhanced website usability by developing an alternative front-end proposal using React, leading to a more intuitive user interface.

### Scrum Master & Project Manager

*Jan 2023 – June 2023*

*Sharif University of Technology*

- led a team of 4 students, using Agile and Scrum frameworks to enhance project management and team collaboration.
- Improved team productivity by conducting regular stand-ups and fostering a supportive environment through using tools like Jira, leading to efficient problem-solving and progress tracking.
- Maintained high standards by ensuring the timely delivery of project increments, resulting in a high-quality final product.

### Sharif University of Technology Teaching Assistant

*Sep 2023 – July 2024*

- Enhanced student learning by assisting in teaching Systems Analysis and Design and Advanced Computer Concepts II, providing support and guidance.
- Improved course delivery by creating presentations and training materials, making complex concepts more accessible to over 70 students.
- Ensured fair assessment by designing, collecting, and grading assignments and final projects, maintaining a high standard of academic integrity.
- Enhanced teaching methods by 50% by recording and acting on student feedback, leading to continuous improvement in instructional techniques.

## PROJECTS

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### Online Bank Website Project / *Java, HTML, CSS, JavaScript*

*Jan 2023 – June 2023*

- Implemented real-time transaction processing, ensuring immediate updates to account balances.
- Designed and developed features to display the history of previous transactions for user reference.
- Created analytical tools to provide users with monthly expense reviews and insights.
- Enhanced user experience by implementing intuitive UI/UX design principles

**Web-based Dental Appointment Scheduling System for Charity Centers / Docker, React, Django, MySQL, RESTAPI**  
*Bachelor's Final Project* Sep 2023 – July 2024

- Developed a web-based platform to streamline appointment scheduling and feedback collection for volunteer dentists.
- Conducted comprehensive literature reviews on existing appointment systems and technological advancements.
- Contributed to increased patient satisfaction and expanded the reach of charitable services to remote areas.
- Provided valuable insights and recommendations for future improvements in healthcare service delivery and IT applications in philanthropy.

## TECHNICAL SKILLS

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**Languages:** Python, SQL, JavaScript, HTML/CSS, R, MATLAB

**Frameworks:** React, Django, WordPress, RESTAPI

**Developer Tools:** Git, Docker, Jupyter Notebooks, VS Code, Visual Studio, PyCharm, Microsoft Project Manager, Jira

**Libraries:** pandas, NumPy, Matplotlib, Seaborn, OpenCV, PyTorch, Python Imaging Library, TensorFlow

## Research SKILLS

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- **Technical Writing:** Expertise in writing research proposals, reports, and papers with clarity and precision.
- **Data Collection and Analysis:** Proficiency in collecting quantitative and qualitative data through surveys, experiments, interviews and analyzing the data using statistical software or coding languages.
- **Critical Thinking and Problem-Solving:** Strong analytical skills to evaluate research findings, draw conclusions, and develop innovative solutions to complex problems.
- **Literature Review and Synthesis:** Ability to conduct comprehensive reviews of existing research, summarize findings, and identify gaps in the literature.
- **Literature Database Management:** Proficient in using reference management software like EndNote, Zotero, or Mendeley to organize and cite research sources.
- **Data Visualization:** Skills in presenting data through charts, graphs, and other visual aids to effectively communicate research findings.

## Honors

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- **Top Rank:** Achieved #1 rank among all computer engineering students at Sharif University of Technology-International Campus with a GPA of 3.95 /4 (2020 entry).
- **Student Representative:** Selected as the representative and elite student to meet with the Vice President and Secretary of the Supreme Council of Independent Commercial-Industrial Zones on Student's Day (Dec. 2023).