

Amirhossein Nabipour

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PERSONAL PROFILE

I'm currently studying for my Bachelor in Computer Science at Islamic Azad University of Science and Research Branch.

In general, I'm interested in Machine Learning and its applications. I'm particularly interested in applying supervised learning techniques (classification, regression) and uncovering hidden patterns in data using unsupervised learning (clustering, association rule learning). I believe unsupervised learning holds potential for novel discoveries in various fields.

I'm also interested in Computer Vision and Web Development and I've done some projects related to these areas.

EDUCATION

Bachelor of Science in Computer Science

Sep 2019 - Present (Expected to graduate in Jun 2024)

Islamic Azad University of Science and Research Branch

Department of Converging Sciences and Technologies

GPA : 3.6/4.0 — (16.30/20.00)

Diploma in Mathematics and Physics

Sep 2016 - Jun 2019

Shahid Ali Mohammadi Government Leading High School

GPA: 3.9/4.0 — (18.75/20.00)

RESEARCH INTERESTS

Machine Learning: Supervised (Classification and Regression) , Unsupervised (Clustering and Association)

Computer Vision, Data Analytics, Information visualization, Image processing, Web Developing

SKILLS

Programming Languages: Python, Java, Node.js, Fortran

Libraries & Frameworks (Backend): Django, Spring Boot, Scikit-learn, Numpy, Pandas, Matplotlib, Keras

Frontend Development: HTML, CSS, JavaScript, Sass

Libraries & Frameworks (Frontend): Bootstrap, jQuery, Vue3

Database: SQL, SQLServer

Tools: Git, Regex, Trello, Jupyter

Document Preparation: LaTeX

WORK EXPERIENCE

Technical Support Specialist

Unique Motor Oil

Mar 2021 - Present

- Successfully reduced server downtime by 20% through proactive monitoring and optimization.
- Resolved an average of 3 email server issues per week, maintaining an uptime of 99.5%.
- Led the migration of 200 users to a new email platform, ensuring a smooth transition with minimal disruptions.
- Proven ability to work independently and as part of a team to troubleshoot and resolve complex IT issues.

Python and Web Design Instructor

Lancer Institute - Sharif Innovation Center

Jul 2023 - Present

Engaged diverse student groups (elementary to high school) in the world of Python and Web Design through interactive workshops.

Web Design:

- Demystified fundamental web design concepts like HTML, CSS, and JavaScript, catering to age-appropriate understanding.
- Equipped students with the ability to build responsive websites using popular libraries like Bootstrap and jQuery.
- Empowered students to express themselves creatively by designing and deploying personalized websites, even incorporating advanced styling techniques with Sass.

Python:

- Introduced core Python concepts like loops, functions, and data structures through engaging activities and problem-solving challenges.
- Utilized the Tkinter library to guide students in creating functional Python applications with real-world applications.
- Cultivated computational thinking and problem-solving skills through collaborative project development.

Key achievements:

- **Web Design:** 85% of middle school students successfully built dynamic websites utilizing Bootstrap and jQuery.
Increased student knowledge of web design principles by 30%, measured through pre and post-workshop assessments.
- **Python:** 100% of high school students mastered basic Python functionalities, demonstrated through independent project completion.
Enhanced student problem-solving abilities by 25%, evidenced by their innovative Tkinter applications.

PROJECTS

Epay

Developed a full-stack payment processing application (Epay) using Django (backend) and Vue.js (frontend) to facilitate online and virtual network sales for Iranian users.

GitHub Link: [Epay](#)

RFM-Clustering

Implemented an RFM customer segmentation model using Python and K-means clustering to analyze customer behavior on the Nuorashop.ir website.

GitHub Link: [RFM-Clustering](#)

Spring Boot Application for Sheep Farm Data Management

Developed a Spring Boot application for a sheep farm management system, facilitating data management for sheep and their offspring.

GitHub Link: [Farm](#)

ANP Website Design

Designed a website for ANP (Andisheh Negar Pars) to enhance their online presence and user experience.

GitHub Link: [ANP](#)

SELECTED COURSES

Artificial Intelligence	(18.00/20.00)
Principles of Operating Systems	(19.00/20.00)
Compiler	(18.00/20.00)
Numerical Linear Algebra	(20.00/20.00)
Numerical Analysis	(18.00/20.00)
General Mathematics 3	(18.5/20.00)
Non-Linear Optimization	(17.00/20.00)

LANGUAGES

Persian: Native **English:** Proficient (IELTS Score: 7.5 Overall) **German:** Upper Intermediate

AWARDS AND HONORS

KidCode Coding Competition Referee

Sharif University of Technology

Year: 2024