Arghavan Aslani

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EDUCATION

B.Sc. in Electrical Engineering, University of Tehran, Tehran, Iran   **Sep. 2017 - Sep. 2022**
Specialization in Control Systems

Overall GPA: 15.24/20

Member of BTCS (Brain Tech and Cognitive Science Club)

Performer and Member of Council at Performing Arts Club

EXPERIENCE

Crowd Cognition group, LMU — Research Assistant   Apr. 2022 - present

🌐 crowdcognition.net

Conducted multiple data collections using the Pupil Invisible eye-tracker from Pupil Labs   [Link to Guide]
and created a customized guide for data collection assistants.

Utilized data analytics techniques (statistical tests, similarity metrics, ...)   [Link to Code]

Created data visualization based on the analysed data.   [Link to Code]

Developed application to track and illustrate gaze data in real-time.   [Link to Code]

ESLAB, University of Tehran — Lead Reseach Assistant   July 2021 - August 2022

www.linkedin.com/company/eng-sci-lab

Developed a robot 2-DOF robot "Spider-Paint" that is able to get a picture as input   [Link to Videos]
and draw/print it on a white-board using a marker.

Designed an algorithm in C to control two stepper motors on vertical plan using a single   [Link to Code]
Arduino.

Authored a paper that has been accepted by the ISME Conference 2022.   [Link to Paper]

CLIC, University of Tehran — Market Analyst   July 2019 - Sep 2019

Conducted in-depth analysis to identify optimal markets for eye-tracking devices.

Scheduled and facilitated meetings with potential customes.

Prepared and delivered weekly progress reports on the analysis.

PROJECTS

Web Scraping for Job Advertisements in https://jobvision.ir   [Link to Code]

Developed in Python. Utilized BeautifulSoup, pandas, and requests for web scraping and data processing.
Created a custom database due to the unavailability of existing datasets in the field.

Certifications

Task-Orienred Course in Data Analysis with Python   Link to Certificate

Computational Neuroscience, Neuromatch Academy   Link to Certificate

Publications

Design, Fabrication and Control of 2 DoF Robot in Vertical Plan   Link to Paper

Technical Skills

Programming Languages   Python, C, C++, SQL, MATLAB, HTML, CSS, JavaScript, R
miscellaneous   Linux, Git, Windows, LATEX, Microsoft Office