

Parmida Jabari

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Education

Shahid Beheshti University

September 2020 – Feb 2025

B.Sc. of Computer Science

Tehran, Iran

- GPA: 17.87/20.00
- **Final Project:** Machine Learning-Based Dose Prediction System for Radiation Therapy
 - * Designing a system using CT/PET images to improve personalized cancer treatment.
 - * Findings are currently under review in a peer-reviewed journal.
 - * Supervisor: **Dr. Saeed Reza Kheradpisheh.**

Research Interests

- Machine Learning and Artificial Intelligence
- Robotics, Autonomous Systems, and Human-Robot Interaction
- Neuroscience, Human-Computer Interaction, and Cognitive Studies
- Computer Vision and Image Processing
- Computational Medicine and Healthcare Applications

Publications

- **Autonomous Rearrangement Planning Using Object Similarity Learning** (Accepted for publication in **IEEE Xplore**)
International Conference on Robotics and Mechatronics (*ICROM 2024*) **October 2024**
, **Parmida Jabari**, Zeynab Ezzati Babi, Hamed Ghasemi, Mehdi Tale Masouleh and Ahmad Kalhor
- **Machine Learning-Based Dose Prediction in [¹⁷⁷Lu]Lu-PSMA-617 Radioligand Therapy by Integrating Clinical Biomarkers and Radiomic Features from Pretreatment PET/CT Images**
Radio Journal (Under Review) **May 2024**
Elmira Yazdani, Mahdi Sadeghi, Najme Karamzade-Ziarati, **Parmida Jabari**, Mahboobeh Asadi, Malihe Shahbazi Akbar, Habibeh Vosoughi, Saeed Reza Kheradpisheh, and Parham Geramifar

Conference Projects

- **Online AI-Based Cognitive Assessment Platform**
12th Basic and Clinical Neuroscience Congress (BCNC) **December 2023**
Parmida Jabari, Sepehr Mousaviyan, Zahra Rezvani
Presented our research about an online AI-Based Cognitive Assessment Platform for Comprehensive Cognitive Evaluation.

Research Experience

Research Assistant

September 2023 – Present

Taarlab, University of Tehran

Tehran, Iran

- Engaging in multiple research projects involving robotics and automation, focusing on enhancing robot decision-making, task execution, and object manipulation through neural networks and machine learning techniques.
- Achieved over 80% accuracy for rearrangement tasks using similarity learning

Research and Project Intern

June 2023 – November 2023

Institute for Research in Fundamental Sciences (IPM)

Tehran, Iran

- Developing an AI-powered game bot using Python, capable of playing a soccer game with users.
- Investigating the application of artificial intelligence in cognitive studies, exploring how AI can be used to understand and replicate human cognitive processes.
- Creating an eye-tracking tool to study human gaze behavior in response to different emotional stimuli using Python.

Teaching Experience

Teaching Assistant, Database Systems Instructor: Prof. Mehrdad Ahmadzadeh Raji	September 2024 – Present Shahid Beheshti University
Teaching Assistant, Image Processing Instructor: Prof. Zahra Rezvani	Jan 2024 – June 2024 Shahid Beheshti University
Teaching Assistant, Machine Learning Instructor: Prof. Hadi Farahani	Jan 2024 – June 2024 Shahid Beheshti University
Teaching Assistant, Basics Of Programming Instructor: Prof. Saeed Reza Kheradpisheh	September 2023 – Jan 2024 Shahid Beheshti University

Work Experience

Senior Backend Software Engineer Tecnotree Corporation	August 2023 – November 2024 Remote
<ul style="list-style-type: none">Optimizing micro-services with Spring Boot and managed Camunda workflows.Developing a dynamic API-based system using MongoDB and JSON documents, leading to 30% performance enhancement.	
Backend Software Engineer E-Farda	October 2021 – July 2023 Tehran, Iran
<ul style="list-style-type: none">Redesigning the Fanoos personal finance management app and adding new features like stock management and auto payment.Implementing security and user convenience with a Python-based face authentication system and voice assistant for transactions.	

Academic Projects

Dose Prediction Using Radiomic Features Python	Dose Prediction Github
<ul style="list-style-type: none">Developed a dose prediction machine learning model using radiomic and clinical biomarkers features gathered from under-treatment cancer patients and their CT/PET images.Outcome: Achieved an R-squared of 0.7 for CT images and 0.8 for PET images, positioning it as a reliable tool for treatment planning.	
Car Speed Detection Project Python, OpenCV, PyTorch	Car Speed Detection Project Github
<ul style="list-style-type: none">Developed a car speed detection system using optical flow and machine learning, obtaining a mean average precision of around 0.5, and enabling accurate driving vehicle speeds in video feeds for traffic monitoring and analysis.	
LLM Detection Project Python	LLM Detection Github
<ul style="list-style-type: none">Implemented an LLM detection project to detect AI-generated texts using the DeBERTa model.Created a live dashboard for monitoring the model results.	
Persian Sentiment Analysis Python	Persian Sentiment Analysis Github
<ul style="list-style-type: none">Implemented a Persian sentiment analysis model using Bidirectional Long-Term Memory (BiLSTM) and Convolutional Neural Network (CNN) methods, categorizing the comments into negative and positive.Achieved an F1 score of over 0.8, ranking in the top 5 results among the groups.	
Eye Tracking Project Python	Eye Tracking Project Github
<ul style="list-style-type: none">Created an eye-tracking tool for tracking gaze movement and emotions for analyzing human behavior and eye movements while doing different psychological tasks.	
Movie Recommendation System Python	Movie Recommendation Hugging Face
<ul style="list-style-type: none">Implemented movie recommendation systems using clustering, content-based, and collaborative filtering techniques.	
Hand Writing Application Kotlin	Hand writing application Github
<ul style="list-style-type: none">Developed an Android app enabling users to handwrite in designated areas and recognize handwritten characters.	

English Proficiency

<ul style="list-style-type: none">IELTS Academic Test: Overall Band Score: 8.0 (C1 Level)				October 2024
<ul style="list-style-type: none">Listening: 8.5	<ul style="list-style-type: none">Reading: 8.0	<ul style="list-style-type: none">Writing: 7.0	<ul style="list-style-type: none">Speaking: 7.5	

Technical Skills

Programming Languages: Python, Java, C, C++, SQL, Kotlin, JavaScript

Data Science and Machine Learning: Supervised and Unsupervised Learning, Artificial Neural Networks (ANN), Convolutional Neural Networks (CNN), Recurrent Neural Networks (RNN), Natural Language Processing (NLP), Reinforcement Learning

Tools and Libraries: pandas, NumPy, Matplotlib, Seaborn, SciPy, Scikit-learn, TensorFlow, Keras, PyTorch, XGBoost

Databases: PostgreSQL, MySQL, Oracle, MongoDB, Redis

Software Development and Backend: Spring, Spring Boot, Flask, Django, Object-Oriented Programming (OOP), Compilers

Mathematics and Algorithms: Probability, Statistics, Optimization, Data Structures and Algorithms, Algorithm Design

Certificates

CS50 Harvard's Computer Science

Jan 2022 – May 2022

Harvard University

- <https://certificates.cs50.io/39d107a0-2759-4541-af20-c541e3983c74.pdf?size=letter>

Linux LPIC 1

Feb 2023 – April 2023

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References

- **Dr. Saeed Reza Kheradpisheh (Head of the Computer Science Department)**, Artificial Neural Networks, Neuroscience
Department: School of Computer Science and Mathematics
University: Shahid Beheshti University
Email: s_kheradpisheh@sbu.ac.ir
- **Dr. Mehdi Tale Masouleh (Associate Professor)**, Robotics
Department: School of Electrical and Computer Engineering
University: University of Tehran
Email: m.t.masouleh@ut.ac.ir
- **Dr. Mehrdad Ahmadzadeh Raji (Associate Professor)**, Database Systems, Operating Systems
Department: School of Computer Science and Mathematics
University: Shahid Beheshti University
Email: m_ahmadzadeh@sbu.ac.ir