





Ali Noroozbeigy

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RESEARCH INTEREST

- Computer Vision
- Autonomous Driving
- Medical Image Analysis
- Deep Learning
- Machine Perception

EDUCATION

Amirkabir University of Technology (Tehran Polytechnique)

2020 - present

*Bachelor of Science in **Computer Engineering***

Current GPA: 18.3/20.0

Major related courses:

- Principles of Computational Intelligence: 19.5/20.0
- Information Retrieval: 18.12/20.0
- Principles and Applications of Artificial Intelligence: 19.0/20.
- Data Structures and Algorithms: 18.8/20.0
- Advanced Programming: 19.25/20.0

National Organization for Development of Exceptional Talents

2014 - 2020

High School Diploma in Mathematics and Physics [Hamedan - Iran]

GPA: 19.5/20.0

TEACHING ASSISTANT EXPERIENCE

Teaching Assistant, Principles and Applications of AI

Fall 2022 - Spring 2023

*Under supervision of **Dr. Mahdi Javanmardi***

Amirkabir University of Technology

Teaching Assistant, Operating Systems

Spring 2023

*Under supervision of **Dr. S. Ahmad Javadi***

Amirkabir University of Technology

Teaching Assistant, C Programming Lab

Fall 2021

*Under supervision of **Dr. Hossein Zeinali***

Amirkabir University of Technology

NOTEABLE PROJECTS

B.Sc. Thesis: Detection and Recognition of Iranian ID Card

Summer 2023 – Fall 2023

Statistical Machine Learning Lab, Under Supervision of Dr. Ahmad Nickabadi

- Collect Data of Iranian ID Cards and Negative Ones
- Train a Model for ID Card Detection
- Use Pre-Trained Model of Persian OCR for Recognition of Data in ID Card
- Deploy the Model on Browser (Edge Computing) for User Interface

Internship Project: Real-Time Persian License Plate Recognition System

Summer 2023

Hooshmand Sazan Bita Co

- Research for LPR Methods
- Train Yolo Model for License Plate Detection on an Iranian LP Dataset

- Train another Yolo Model for Performing LP Segmentation and Segment Classification on an Iranian LP Characters Dataset
- Develop Code and Use Docker for Deploying the Software

Projects Related to Principles of Computational Intelligence Course

Spring 2023

- Implementation of a fuzzy expert system for Self-Driving Car Python Game [Repo]
- Implementation of Neural Networks for Classification 2 and 5 Pictures in MNIST Dataset [Repo]
- Implementation of Evolutionary Algorithm for text-based Super Mario Game [Repo]

Projects Related to Principles and Applications of AI Course

Spring 2022

- Implementation Basic Algorithms of AI in Four Part, Including: Search[BFS, DFS, UCS, A*][Repo] Adversarial[MiniMax, Expectimax, alpha-beta pruning][Repo] RL[MDP, Q-Learning, Value Iteration][Repo] Bayes Nets[Repo]

Information Retrieval Course Project

Spring 2023

Developing Persian News Search Engine

- Performing Prerocessing Techniques like Tokenizing, Stemming, etc on 12k Persian News Dataset.
- Build an Inverted Index to Save Tokens.
- Compute TF-IDF Scores for Ranked Retrieval

HONORS AND REWARDS

National University Entrance Exam: Ranked **254** Nationwide and **78** Regional among 155250 Iranian Participants. YEAR: 2020

Talented Student: Awarded as University Exceptionally Talented Student (Certificate Available). YEAR: 2020 - 2023

WORK EXPERIENCE

Software Engineer | *Hooshmand Sazan Bita Co*

Summer 2023 - Present

Alongside Developing LPR, I Participate in Developing Existing Code Bases and New Software Productions. Main Language in Corporation is Java and Spring FrameWrok. LPR is being Developed using Python.

SKILLS

Programming Languages: C, Java, Python, HTML/CSS, \LaTeX , SQL, ARM Assembly, CUDA

Tools: Git/GitHub, Linux/Ubuntu and Arch, PyCharm, IntelliJ IDEA, Wireshark, Cisco Tracer, MySQL, MongoDB

Libraries and FrameWroks: Pandas, Beautiful Soup, Selenium, Flask, TKinter, Numpy, Matplotlib, Keras/Tensorflow, Yolo, REST-API, Open-MP

LANGUAGES

English: My Official ESL Scores Are Not Available Yet, But Currently, I'm Doing My Best To Prepare Myself For TOEFL Exam. However, I Can Read and Understand Academic and General Contexts (like Textbooks and Online Courses) Easily. My Writing and Speaking Skills are in intermediate level.

Persian: Native

EXTRACURRICULAR ACTIVITIES

Member of AUT Philosophy Club: Participating in a movie and book review panels. Discussing and Criticizing Books and Movies.