





Ali Noroozbeigy

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RESEARCH INTEREST

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

EDUCATION

Amirkabir University of Technology (Tehran Polytechnique) 2020 - present

Bachelor of Science in Computer Engineering

Current GPA: 18.3/20.0 (3.82/4.0)

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, commissioned by Tosan Company,

Under Supervision of **Dr. Ahmad Nickabadi**

- Collect Data of Iranian ID Cards and Negative Ones
- Label Collected Data
- 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
Hooshmand Sazan Bitá Co

Summer 2023

- 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[Repo]

- Performing Preprocessing 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 Bitá 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, L^AT_EX, SQL, ARM Assembly, CUDA

Tools: Git/GitHub, Linux/Ubuntu and Arch, Docker, 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. 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.