



MOHAMMADREZA HOSSEINI

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Date of birth: 17/04/1996 **Nationality**: Iranian

SUMMARY

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As an aspiring computer vision specialist with a strong academic foundation in computer science and a passion for machine learning, I am seeking an internship opportunity to apply my technical skills and contribute to innovative projects. Currently pursuing a Master's degree in Artificial Intelligence, I have completed coursework and projects that have solidified my knowledge in image processing, neural networks, and data analysis. Proficient in Python, and familiar with frameworks such as TensorFlow and OpenCV, I am eager to leverage these skills in a practical, research-driven environment. My hands-on experience includes developing a synthetic medical image generation project in which I reached to promising results, showcasing my ability to not only apply theoretical concepts but also achieve tangible improvements. Complementing my technical expertise, my strong problem-solving abilities, attention to detail, and collaborative spirit make me a well-rounded candidate ready to contribute to your team's success.

EDUCATION AND TRAINING

[01/09/2021 – Current]

Masters of Artificial Intelligence

University of Bologna www.unibo.it

City: Bologna

Country: Italy

[01/02/2015 – 30/01/2019]

Bachelor of computer science

University of Damghan www.du.ac.ir/

City: Damghan

Country: Iran

WORK EXPERIENCE

[01/09/2022 – Current]

Teacher Assistant

University of Bologna

City: Bologna

Country: Italy

- I was a tutor for artificial intelligence courses.
- I am TA for Languages and Algorithms for Artificial Intelligence
- Professor: Simone Martini (Full Professor, simone.martini@unibo.it, [website](#))

[01/09/2016 – 30/07/2019]

Tutored Engineering Mathematics (6th & 7th Semester) and Python Programming Language

University of Damghan

City: Damghan

Country: Iran

[01/02/2019 – 30/08/2021]

Senior Python Developer

Faradid

City: Tehran

Country: Iran

- Achieved and consistently exceeded both short and long-term targets.
- Initiated proactive involvement in meetings, contributing to the creation of innovative practices.
- Trained, coached, and supervised new staff members to ensure optimal performance and integration.
- Presented and pitched ideas aimed at enhancing overall performance and efficiency.
- Collaborated with management to identify workflow issues and proactively implemented effective solutions.

PROJECTS

[01/11/2023 – 30/11/2023]

Generation of Clinical Skin Images

Incorporating a ControlNet that mirrors our desired control parameters, such as skin color tone, by employing a prompt to steer the creation of new samples. The initiative is rooted in an adapted edition of the official diffusers library. The alterations are exclusively confined to the controlnet directory at [link](#), offering straightforward tracking by comparing the official commits with my own contributions.

Link: <https://github.com/mowhammadrezaa/diffusers/tree/main/examples/controlnet>

Medical Abbreviation Disambiguation

This project demonstrates methodologies for tackling Abbreviation Disambiguation (AD) in the medical field using Natural Language Processing (NLP) techniques. The primary goal of AD is to associate abbreviations in sentences with their corresponding full forms from a set of potential expansions.

Link: https://github.com/mowhammadrezaa/ABBREVIATION_DISAMBIGUATION_MEDICAL_NLP

Question answering task (COQA dataset)

Link: https://github.com/mowhammadrezaa/QuestionAnsweringUsingCOQADa_taset

The Resistance

Solving the challenge introduced at [link](#) using Prolog and Minizinc

Link: <https://github.com/mowhammadrezaa/the-resistance>

Automated Appointment Booking System (Confidential)

Developed a Python-based automated system for bulk appointment bookings, utilizing the following tools and techniques:

1. Python Requests Library:

- Efficient communication with the target website for data retrieval and automation.

2. Burp Suite:

-Ensured system security through comprehensive testing and analysis.

3. Postman:

Streamlined API testing for enhanced system reliability.

4. Proxy Servers:

Implemented custom proxies for anonymized, parallel user interactions.

5. Multi-threading:

Optimized performance through parallel task execution.

6. AntiCaptcha Services API:

Integrated captcha handling for a seamless automated process.

Project Overview (Confidential):

Executed a scraping operation on a secure appointment booking gateway, creating bulk user accounts and automating appointment scheduling. Utilized proxies and multi-threading for simultaneous user interactions, ensuring anonymity. Captcha handling integrated through AntiCaptcha Services API.

Note: Specific project details are confidential and cannot be disclosed.

LANGUAGE SKILLS

Mother tongue(s): Persian

Other language(s):

English

LISTENING C2 READING C1 WRITING C2

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Python packages

Pandas | Scikit-Learn | Numpy | Matplotlib | Seaborn | requests | opencv-python | Django

Programming languages

Python | R | Java | Prolog | Lisp | racket-lang | Minizinc

Operating Systems

Linux | Windows | MacOS

Deep Learning

Tensorflow | keras | PyTorch

Other

Git | Docker | LaTeX | SQL | Bash/Shell | Power Automate | AWS Cloud

HOBBIES AND INTERESTS

Table Tennis

Chess

RESEARCH INTEREST

My Research Interest:

- Computer Vision
- Natural Language Processing (NLP)
- Deep Learning
- Machine Learning
- AI for Healthcare
- AI and Creativity