AMIRALI AALI

M. Sc. Data Science Student

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in amirali-aali-09240312b ⭘ amiraliaali

PROFILE

Passionate about AI and machine learning, I hold a Bachelor's degree in Software Engineering and am currently pursuing a Master's in Data Science. Eager to gain hands-on technical experience in AI/ML alongside my studies, I am dedicated to advancing my knowledge and skills in these fields.

TECHNICAL EXPERIENCE

Working Student For Data De-Identification

SAP

📅 May 2024 - Now 📍 Düsseldorf-Ratingen, Germany

- Worked within the anonymization team for data de-identification services at SAP.

Bachelor's Thesis Student

Aptiv

📅 Feb 2024 - Mar 2024 📍 Wuppertal, Germany

- Worked on the topic of *Street Lamp Area Detection* for my Thesis through a collaboration between University of Duisburg-Essen and Aptiv.

Working Student For Computer Vision/AI/ML

Aptiv

📅 Nov 2022 - Jan 2024 📍 Wuppertal, Germany

- Collaborated with a specialized team focused on high beam assistant for the Gen. 7 systems to create a smart system for cars to automatically control their high beams at night.

Tutor for the Course *Procedural Programming*

University of Duisburg-Essen

📅 May 2022 - Aug 2022 📍 Duisburg, Germany

- I supervised the labs for the subject of Procedural Programming, which involved programming in C.

EDUCATION

M. Sc. Data Science

RWTH Aachen University

📅 Apr 2024

B. Sc. Software Engineering

University of Duisburg-Essen

📅 Oct 2020 - Mar 2024

Thesis title: Street Lamp Area Detection using classical vision and CNNs
GPA: 1.7

Preparatory College

Freshman Program (FH-Aachen)

📅 Oct 2019 - Aug 2020

SKILLS

Python   Numpy
Pandas   Matplotlib
Machine Learning with Scikit-Learn
Deep Learning & CNN with PyTorch
Digital Image Processing with OpenCV

C/C++   PyBinds   Unit Testing
Bazel Build Framework
Run Time Profiling

Git   GitHub   Gerrit   Jira
Confluence   Microsoft Office   Latex

LANGUAGES

English ●●●●●

German ●●●●◐○

Persian ●●●●●

HONOURS & AWARDS

German National Scholarship - Deutschlandstipendium
RWTH Aachen University

📅 10.2024 - 10.2025

- Sponsor: Dr. Ing. h.c. F. Porsche AG

3rd Place – National Aerospace Student Competition (Glider League)
Amirkabir University

📅 04.2016

CERTIFICATES

Reinforcement Learning beginner to master - AI in Python
Udemy

Python for Data Science and Machine Learning
Udemy

Beginner C++ Programming - From Beginner to Beyond
Udemy

RECOMMENDATIONS

Markus Bühren
Manager Computer Vision at Aptiv

📅 May 23, 2024

I highly recommend Amir for any role in the field of artificial intelligence and machine learning. Throughout his time as a student at APTIV, he consistently demonstrated a deep understanding of AI and ML concepts, coupled with strong problem-solving and programming skills in Python and C++. He is adept at applying theoretical knowledge to real-world scenarios. His dedication to continuous learning and passion for the field make him an invaluable asset to any team. I have no doubt that he will excel in any role he takes on.
Recommendation can be found on my LinkedIn Homepage.

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PROJECTS

Street Lamp Area Detection
Python, OpenCV, PyTorch, NumPy, Pandas

Autonomous Car Navigation using Proximal Policy Optimization (PPO)
Python, PyTorch, Reinforcement Learning, Pygame

Traffic Signal Control using Deep SARSA
Python, PyTorch, Reinforcement Learning

Image Segmentation using Mixture of Gaussians (MoG)
Python, PyTorch, OpenCV

Maze Solver
Python, PyTorch, Reinforcement Learning

Language Detector
Python, Pandas, NumPy, Scikit-Learn

Login System
C++, Bazel