

AMIRALI AALI

M. Sc. Data Science Student

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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

Rust

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.

[in](#) amirali-aali-09240312b

PROJECTS

Rocket Interceptor

[Python](#), [Reinforcement Learning](#), [PyTorch](#),
[NumPy](#), [PyGame](#)

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](#), [OpenCV](#)

Maze Solver

[Python](#), [PyTorch](#), [Reinforcement Learning](#)

Language Detector

[Python](#), [Pandas](#), [NumPy](#), [Scikit-Learn](#)

Rust Decision Tree Classifier

[Rust](#)

Car Rental System

[C++](#), [Bazel](#)