

# AMIRALI AALI

## M. Sc. Data Science Student

 amiraliaali.github.io  
 amirali-aali-09240312b

 amiraliaali@gmail.com  
 amiraliaali

 +49 15730272150  
 Hansemannplatz, 52062, Aachen



## 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

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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

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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

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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

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

Face Anonymizer in Rust  
**Rust, Python, Computer Vision**

Rocket Interceptor  
**Python, Reinforcement Learning, PyTorch, NumPy, PyGame**

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**