

PERSONAL INFORMATION

Ahmed Imam Shah



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 Sex Male | Date of birth 22.05.1996 | Nationality Pakistani

PERSONAL STATEMENT

Solutions-oriented graduate student motivated to research in the field of computer vision and machine learning.

EDUCATION

| | | |
|-------------------------|---|-------------|
| 17.08.2020 – Present | M.S. Computer Science and Engineering Koç University, Istanbul (Turkey) <ul style="list-style-type: none"> ▪ Computer Vision with Deep Learning ▪ Deep Unsupervised Learning ▪ Medical Image Analysis ▪ Parallel Programming Supervisors Prof. Dr. Yücel Yemez and Prof. Dr. Aykut Erdem | EQF Level 7 |
| 14.01.2016 – 25.06.2020 | B.S. Electrical and Electronics Engineering Bilkent University, Ankara (Turkey) <ul style="list-style-type: none"> ▪ Neural Networks ▪ Introduction to Robotics ▪ Introduction to Machine Learning ▪ Computer Data and Organization | EQF Level 6 |
| 25.02.2019 – 30.06.2019 | Erasmus+ Exchange Program AGH University of Science and Technology, Krakow (Poland) <ul style="list-style-type: none"> ▪ Digital Image Processing and Vision Systems ▪ Computer Networks ▪ Digital Signal Processing ▪ Modern Computer Architectures | EQF Level 6 |
| 22.08.2009 – 20.06.2015 | General Certificate of Education Advanced Level Aitchison College, Lahore (Pakistan) <ul style="list-style-type: none"> ▪ Physics ▪ Chemistry ▪ Mathematics ▪ Computer Science | EQF Level 4 |

WORK EXPERIENCE

17.08.2020 – Present

Graduate Research Fellow

KUIS Artificial Intelligence Laboratory, Istanbul, Turkey (ai.ku.edu.tr)

- Researching in the field of object tracking and segmentation via slot attention on videos using deep unsupervised learning.

Sector Academia

17.08.2020 – Present

Graduate Teaching Assistant

Koç University, Istanbul, Turkey (www.ku.edu.tr)

- Preparing slides and course packages for courses.
- Leading lab and problem-solving sessions.
- Holding office hours to answer students' questions

Sector Academia

09.07.2018 – 03.08.2018

R&D Intern

Arçelik A.Ş., Istanbul, Turkey (www.arcelikas.com)

- Responsible for developing and testing desktop application for detailed analyzing and graphical representation of log files of refrigerator motor by using C# language.

Sector Consumer Electronics and White Goods Manufacturer

03.06.2018 – 01.07.2018

R&D Intern

Infinia Mühendislik Ltd. Şti. (www.infinia.com.tr)

- Power-efficient interfacing of Bluetooth module for wearable electronics in emergency situations.

Sector Research and Development

TECHNICAL SKILLS

Programming & Computing

- MATLAB, Python, Julia, Java, C++, C#, VHDL, SQL, LaTeX

Artificial Intelligence Tools

- Scikit-learn, PyTorch, TensorFlow, Keras, CNN, Google Colab, Jupyter Notebook

Electronics and Simulations

- Arduino, FPGA, SPICE, Circuit Design and Implementation, Network Simulation on Packet Tracer, Instrumentation, and Electrical Measurements

Office Suite

- Microsoft Office programs (Access, Word, Excel, PowerPoint), Google Docs

Operating Systems

- Windows, Linux, macOS, Android

Other Libraries

- OpenMP, OpenCV, Pandas, Numpy, CUDA

PERSONAL SKILLS

Mother tongue Urdu

Other languages

| | UNDERSTANDING | | SPEAKING | | WRITING |
|--|---------------|---------|--------------------|-------------------|---------|
| | Listening | Reading | Spoken interaction | Spoken production | |
| English | C1 | C1 | B2 | C1 | C1 |
| IELTS. Overall Score: 7.5 | | | | | |
| German | A2 | A2 | A2 | A1 | A2 |
| Goethe-Zertifikat. Overall Score: 63/80 | | | | | |
| Turkish | A2 | A2 | A2 | A2 | A2 |
| Bilkent University TRK 112. Overall Score: A grade | | | | | |

Communication skills ▪ Verbal and Written Communication, Technical Documentation

Managerial skills ▪ Leadership, Teamwork, Problem-Solving Ability

Soft skills

| SELF-ASSESSMENT | | | | |
|------------------------|---------------|------------------|------------|-----------------|
| Information processing | Communication | Content creation | Safety | Problem-solving |
| Independent | Proficient | Proficient | Proficient | Independent |

ADDITIONAL INFORMATION

MOOCs ▪ AI Product Management Specialization by Duke University on Coursera
▪ Responsible Conduct of Research for Engineers by CITI Program

Projects ▪ Slot Attention for Videos using PyTorch
▪ Implementation of "Object-Centric Learning using Slot Attention" using Knet
▪ U-Net Transformers for Medical Image Segmentation
▪ Senior-Year Industrial Design Project: Visual Odometry Integrated with Inertial Navigation System for Autonomous Vehicles
▪ Image Captioning System implemented using TensorFlow
▪ DeepFake Detecting Model implemented by Deep Learning using PyTorch

Conferences ▪ PASCH Youth Camp in Germany sponsored by Goethe Institute (2011)
▪ PASCH Youth Camp in India sponsored by Goethe Institute (2013)

Honors and awards ▪ Full Tuition fee waiver award from Bilkent University, Turkey
▪ College Prefect and House Captain at Aitchison College (2014 – 2015)
▪ 1st in Ghulam Ishaq Khan Institute (GIKI) Science Fair (2014)