



Ahmed Imam Shah

📍 Istanbul, Turkey

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PERSONAL STATEMENT

Solutions-oriented high honor graduate student motivated to research and strive in the field of computer vision and deep learning. Currently working on deep unsupervised learning for object tracking problems.

EDUCATION

09.2020 – present
Istanbul, Turkey

M.S. Computer Science and Engineering

Koç University [🔗](#)

Core Electives:

- Computer Vision with Deep Learning
- Deep Unsupervised Learning
- Medical Image Analysis
- Parallel Programming
- Computer and Network Security

Supervisors: Prof. Dr. Yücel Yemez [🔗](#) and Prof. Dr. Aykut Erdem [🔗](#)

01.2016 – 06.2020
Ankara, Turkey

B.S. Electrical and Electronics Engineering

Bilkent University [🔗](#)

Core Electives:

- Neural Networks
- Introduction to Robotics
- Introduction to Machine Learning
- Computer Data and Organization

02.2019 – 06.2019
Krakow, Poland

Erasmus+ Exchange Program

AGH University of Science and Technology [🔗](#)

Core Electives:

- Digital Image Processing and Vision Systems
- Computer Networks
- Digital Signal Processing
- Modern Computer Architectures

08.2009 – 06.2015
Lahore, Pakistan

GCE Advanced Level

Aitchison College [🔗](#)

Subjects:

- Physics
- Chemistry
- Mathematics
- Computer Science

PROFESSIONAL EXPERIENCE

- 09.2020 – present
Istanbul, Turkey **Graduate Research Fellow**
KUIS Artificial Intelligence Laboratory [↗](#)
Researching in the field of visual attention models for object tracking and segmentation in synthetic videos using deep unsupervised learning.
- 09.2020 – present
Istanbul, Turkey **Graduate Teaching Assistant**
Koç University [↗](#)
Responsible for preparing course content, leading labs, conducting problem-solving sessions, and holding office hours to answer students' questions.
- 07.2018 – 08.2018
Istanbul, Turkey **R&D Intern**
Arçelik A.Ş. [↗](#)
Responsible for developing and testing desktop application for detailed analyzing and graphical representation of log files of refrigerator motor.
- 06.2018 – 07.2018
Ankara, Turkey **R&D Intern**
Infinia Mühendislik Ltd. Şti. [↗](#)
Interfacing power-efficient of Bluetooth module for wearable electronics in emergency situations.

PROJECTS

Object Discovery and Tracking using Slot Attention [↗](#)

Using deep unsupervised learning techniques to discover objects in synthetic videos and track them temporarily. PyTorch framework is used for implementation.

Re-implementation of “Object-Centric Learning using Slot Attention” [↗](#)

Reproducing the results of the unsupervised object discovery model from the paper [↗](#) by using Knet deep learning framework for Julia language.

Re-implementation of "Pixel Convolutional Neural Network" [↗](#)

Reconstruction "Pixel Convolutional Neural Network" [↗](#) an auto-regressive generative model using Knet deep learning framework in Julia language.

Visual Odometry Integrated with Inertial Navigation System

A localization system for vehicles developed for Ardic Labs [↗](#) using an inertial navigation system aided by visual odometry algorithms for efficient navigation in the absence of GPS.

CERTIFICATES

Responsible Conduct of Research for Engineers [↗](#)

Collaborative Institutional Training Initiative

COURSES

Applied Data Science with Python Specialization [↗](#)

University of Michigan | Coursera

Constituent Courses:

- Introduction to Data Science
- Applied Plotting, Charting & Data Representation
- Applied Machine Learning
- Applied Text Mining
- Applied Social Network Analysis

AI Product Management Specialization [↗](#)

Duke University | Coursera

Constituent Courses:

- Machine Learning Foundations for Product Managers
- Managing Machine Learning Projects
- Human Factors in AI

Data Science Ethics [↗](#)

University of Michigan | Coursera

SKILLS

Programming and Computing

Python, Julia, MATLAB, Java, C, C++, VHDL, SQL

Artificial Intelligence Tools

Scikit-learn, PyTorch, TensorFlow, Knet, 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), LibreOffice, Google Docs

Operating Systems

Windows, Linux, macOS, Android

Other Libraries

OpenMP, OpenCV, Pandas, Numpy, CUDA

LANGUAGES

English



Urdu



Turkish



German

