Armin **Eskandarinasab**

DATA SCIENTIST | BACKEND DEVELOPER

ARMIN ESKANDARINASAB

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Armin's LinkedIn

Armin's Github

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PERSONAL INFORMATION

Date of Birth	25 Mar 1994
Place of Birth	Kerman, Iran

RESEARCH INTERESTS

Computer Vision
Image Processing
Machine Learning
Optical Design
Deep Learning in Optics

SELECTED SKILLS

MACHINE LEARNING

Python
MATLAB
Tensorflow
PyTorch
DVC

BACKEND DEVELOPMENT

Typescript
NestJS
MongoDB
Redis

WORK EXPERIENCES

09/2023 – Now

Data Scientist
RahkarSanat · 📍 Kerman, Iran.
Full Time
• Implementing classification of drowsiness for drivers using Zero-shot learning in Keras and Tensorflow.
• Training and Fine-tuning Stable-Diffusion model on rahkarsanat private data for advertising purposes.

Zero-Shot Learning   Stable Diffusion

11/2022 – 09/2023

Backend Developer
RahkarSanat · 📍 Kerman, Iran.
Full-Time
• Developing financial micro-services using NestJS framework.
• Developing Terabar, a web application to establish communication between drivers and cargo owners and solve their logistic problems.
• Maintaining Kiz-platform, a software as a service (SaaS) for delivering basic and the most needed features to young startups.

Microservices   SaaS

01/2020 – 11/2022

Python Developer
SERAZ · 📍 Ardabil, Iran. (Remote)
Part-Time
• Responsible for the simulation of Metabolic-Bacterial network interactions.
• Developed a user interface for a Graph representation of a Metabolic network.
• Executed a method to find the most effective metabolites and bacteria in different illnesses.
• Tested a method to reveal step-by-step bacteria growth in a community

Python

03/2018 – 03/2019

Machine Learning Technician
KERMAN REGIONAL ELECTRICAL COMPANY (KREC) · 📍 Kerman,Iran
Part-Time
• Trained and fine-tuned FastRCNN object detection method (with Microsoft ResNet backend) to find critical failures in electrical towers from images taken by drones.

Image Processing   Deep Learing

01/2023 – 02/2023

Teaching Assistant
SHAHID BAHONAR UNIVERSITY OF KERMAN · 📍 Kerman, Iran
Part-Time
• Teaching Assistant, Electronics II Lab, Instructor: Dr. Azam Karami, Spring 2017- Fall 2018
• Authored Electronics II lab instruction manuals for Optical Engineering students, Fall 2017
• Teaching Assistant, Optical Design, Instructor: Dr. HamidReza Mashayekhi, Spring 2018
• Educational Seminar, Working with Zemax Software, Dr. HamidReza Mashayekhi, Spring 2019

Electronics II   Lab Manual

EDUCATION

09/2016 – 09/2020 **M.Sc. in Photonics - Electronics and Telecommunication**
GPA: 3.76/4 (16.81/20) · 🏛 Graduate University of Advanced Technology, Kerman, Iran
Title: "An Optimum Isopropanol Optical Fiber Temperature Sensor using Deep Learning."
Advisor: Dr. Mehdi Tajaldini

09/2012 – 09/2016 **B.Sc. in Optical Engineering**
GPA: 3.46/4 (17.30/20) · 🏛 Shahid Bahonar University of Kerman, Kerman, Iran
Project Title: "Simulation of a Distant Lamp Light Diffraction after Passing Through a Lace."
Advisor: Dr. Hamidreza Mashayekhi

PUBLICATIONS

10/2017 **The Effect of Denoising on Superresolution of Hyperspectral Imaging**
ESKANDARI, A., AND KARAMI, A. · 📕 Image and Signal Processing for Remote Sensing XXIII (Vol. 10427, p. 1042708). International Society for Optics and Photonics
DOI: https://doi.org/10.1117/12.2278503

05/2017 **Cloud Shadow Removal from Aerial Images**
ESKANDARI, A., AND KARAMI, A. · 📕 4th National Open Mining Conference. Kerman, Iran
⟨ Best Paper Award ⟩

10/2016 **Introduction of Separation Boundary in Sub-Pixel Mapping based on Attraction Model**
ESKANDARI, A., KARAMI, A., AND ADIBI, S.A. · 📕 Hyperspectral Imaging and Application Conference 2016 (HSI 2016). Coventry, UK

TEST SCORES

09/2022 **IELTS (Academic): 7**
LISTENING:**8**, READING:**6.5**, SPEAKING:**7**, WRITING:**6**

RELEVANT PROJECTS

06/2020 – 01/2020 **Designing optical instaruments of a CubeSat**
09/2022 – 10/2022 **Converting Farsi speech to text and extracting the keywords**
01/2022 – 02/2022 **Semi-Supervised Video Annotation**
04/2019 – 09/2019 **Detecting face for automation applications on RaspberryPi**
05/2018 – 01/2019 **Laboratory mouse tracking algorithm based on YOLO3**

AWARDS & HONORS

Ranked 1st
among 45 undergraduate students of Optical Engineering, 2012 beginners, Shahid Bahonar University of Kerman. 2016.

Best Paper Award
of the 4th National Open Mining Conference 2017 for the paper "Cloud Shadow Removal from Aerial Images", Kerman, Iran. 2017.

Full Scholarship Award
During Undergraduate and Graduate Studies at the Universities of Shahid Bahonar University of Kerman and Kerman Graduate University of Technology. 2012.

Member of NODET
National Organization for Development of Exceptional Talents (NODET) student selection exam is held every year nationwide for students starting middle and high school. The organization is responsible for several schools across the country and training the top students on a more advanced level in every field of study. 2005-2012

Refrences

Advisor   **Dr. Mehdi Tajaldini**
Assistant Professor · 🏛 Department of Photonics, Graduate University of Advanced Technology
Email: m.tajaldini@kgut.ac.ir
Phone: +98 (913) 245-9378

Advisor   **Dr. Hamidreza Mashayekhi**
Associate Professor · 🏛 Faculty of Physics Shahid Bahonar University
Email: mashhr@uk.ac.ir
Phone: +98 (911) 331-7332

Computer Skills

Python

MATLAB

Zemax OpticStudio

CODE V

Tensorflow

PyTorch

Pandas

OpenCV

GitHub

Docker