

### CONTACT ME AT

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### SKILLS SUMMARY

- ••• Python Programming
- •••• Software Development
- •••• Machine Learning
- •••• Team Management
- •••• Soft Skills

# **HANIE POURSINA**

# MACHINE LEARNING RESEARCHER

### PERSONAL PROFILE

Computer Engineer - Co-founder of AI and IoT powered Startup - Curious about Generative Models and Optimization Methods.

# WORK EXPERIENCE

### Co-Founder at PIXIE

PIXIE, Smart Door Locks Startup | Nov 2020 - Oct 2021

- Deployed Face Recognition on Hardware
- Developed a Distributed System based on Fog Computing
- Send and Received Massages (Lock Status and Commands from Apps) by Massage Brokering Protocols in Real-Time.
- Product Manager and Responsible for Cache Flow, Marketing and Pitching to Investors.

# Al partnership in DigikalaNext

DigikalaNext, Innovation Center of Digikala | Sep 2020 - Nov 2020

# Internship

Iran Information and Communication Technology Research Institute | Jun 2019 - Sep 2019

- Developed a Real-Time Face Recognition Project by Java
- Learned and Researched about Image Processing
- Work with OpenCV library

### RESEARCH PROJECTS

# ioFog, Edge Computing

- Developed a Distributed System based on Fog Computing
- Bringing Docker and Kubernetes to Edge Layer By Technology named ioFog.
- Deploy, Run and Network Distributed Micro-Services at the Edge Layer.
- Use Massage Broker Protocol in Edge Layer.

#### Variational AutoEncoders

- Develop Architecture of an AutoEncoder
- Used Speech Datasets and worked with melspectogram library from Torch
- Calculate Loss Function with two terms of reconstruction error and KL divergence.

### YOLO

- Detect Traffic Signs with YOLO
- Used YOLOv5 to detection
- Dataset taken from Kaggle

# Image Search

- Used CLIP(Contrastive Language-Image Pre-training)
  Pre-trained Model and train it with crawled images and its captions describing them
- Developed APIs with FastAPIs framework
- Received images by POST API and after finding the corresponding text explaining the picture, the relative images would returned

# EDUCATIONAL HISTORY

# University of Isfahan

BSc in Computer Engineering | Sep 2016 - May 2021

- Minor in Computer Engineering
- Thesis involved developing and testing and running ioFog platform technology on three Raspberry Pis

# REFERENCES

#### Dr Ali Bohlooli

Associate Professor Department of Computer Engineering, University of Isfahan, Isfahan, Iran.

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