Amir Alizadeh

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Summary

Amir Alizadeh is a graduate of MSc AI from Birmingham City University. During his master's thesis, he has designed an Object Detection App for visually impaired people, its python implementation is publically available on GitHub. His research interest includes Machine Learning, Deep Learning, and their applications in Computer Vision and Natural Language Processing. As a passionate data scientist, he publishes his articles on his Personal Website.

Education

Birmingham City University
MSc. in Artificial Intelligence — *Sep. 2021 – Mar. 2023*

Payyam Noor University, Mashhad, Iran
BSc. in Biomedical Engineering — *Oct. 2011 – May. 2016*

Publications

Alizadeh, A., Alhelabi, B. (2023). Object recognition app for visually impaired people to assist cross the street. In progress.

Technical Skills

Artificial Intelligence	Pattern Recognition	Deep Learning	Computer Vision	NLP
Programming	Python	MATLAB	C++	R
Python Libraries	TensorFlow	PyTorch	OpenCV	Scikit-Learn

Work Experience

hipretOne CIC, Birmingham, UK

Data Scientist — Oct. 2022 – Present

- *Developing web crawlers in Python to scrape data from websites to develop database.*
- *Designing and developing a Recommendation System to suggest similar courses from the database to users based on their queries.*
- Deploying *the developed model as REST APIs using Flask.*

Arman Dental Industry Company - Mashhad, Iran

Research and Development(R&D) — 2019 _ 2021

- *Responsible for consulting with marketing and production teams to ensure optimal design or product.*

- *I was responsible develop research programs incorporating current developments to improve existing products and study the potential of new products.*
- *Responsible for resolving client concerns about quality products.*

Tapesh Negar Medical Device Company - Mashhad, Iran

Research and Developer(R&D) 2018- 2019

- *Responsible for testing the efficacy and safety of the products and analysing the result in relation to procedures.*
- *Endo-vascular (Peripheral, Aortic Vein), Sales and marketing.*

Research

Birmingham City University, Birmingham, UK

Master's Thesis Jun. 2022 – Sep. 2022

- *Design and develop an Object Detection App for Android OS for visually impaired people. Its python implementation and description are publicly available (Link).*
- *The contribution includes:*
  - *Dataset Collection*
  - *Pre-processing (Annotation and Augmentation)*
  - *Developing the pipeline based on Transformer Learning (EfficientDet and MobileNet)*

Birmingham City University, Birmingham, UK

Course Projects Oct. 2021 – Jun. 202

- *Developing a pipeline base on Generative Adversarial Network (GAN) for mapping semantic images to real ones.*
- *Designing an LSTM-based pipeline for predicting stock's price.*
- *Analysing physiological data and metadata using machine learning methods for stroke prediction (Link).*
- *Developing an LSTM-based model to generate poems (Link).*
- *Designing a data visualization dashboard based on Gestalt Theory (Link).*

Online Certificates

Advanced Linear Algebra & Matrix Calculus For Machine Learning Udemy

***Topics**: Matrix Calculus, Distances, Eigenvalue & Eigenvectors, Principle Component Analysis, Singular Value Decomposition, and etc.*

Deep Learning Specialization DeepLearning.ai

***Topics**: CNN, RNN, GRU, LSTM, Hyperparameter tuning, Regularization, Optimization, and etc.*

Generative Adversarial Networks (GANs) Specialization DeepLearning.ai

Topics: *Basic GAN, StyleGAN, CycleGAN, Pix2Pix GAN, and etc.*

TensorFlow: Advance Techniques Specialization DeepLearning.ai

Topics: *Custom Models, Layers, and Loss Function; Custom and Distributed Training; Implementation of CNN, GRU, and LSTM; Implementation of U-net and ResNet; Implementation of VAE and GAN; and employing them in real world projects in Computer Vision and NLP areas.*

AWS Essential Training For Developer DeepLearning.ai

Topics: *AWS Essential Setup, IaaS Networking, IaaS Storage, DBaaS, PaaS, SaaS, and DevOps with AWS*

Tableau Certificate LinkedIn Learning

Topics: *Mapping Data, Analytics, Dashboard Action and Design, Combining Data and*

Referees ----------

Dr. Iain Rice, Senior Lecturer, School of Computing and Digital Technology, Birmingham City University. Email: mailto:Iain.rice@bcu.ac.uk

Dr. Besher Alhelabi, Research Assistant Lecturer, School of Computing and Digital Technology, Birmingham City University. Email: Besher.alhelabi@bcu.ac.uk

Dr. Zakaria Senousy, Research Assistant Lecturer, School of Computing and Digital Technology, Birmingham City University. Email: Zakaria.Senousy@mail.bcu.ac.uk