Farnoosh Javadi

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⚲ Vancouver, BC

🎓 Education

2018 - Present	**University of British Columbia, Vancouver, BC, Canada** > **M.Sc.** in Computer Science. GPA : 90/100
2013 - 2018	**Sharif University of Technology, Tehran, Iran** > **B.Sc.** in Software Engineering. GPA : 17.75/20
2009 - 2013	**Farzanegan Highschool (National Organization for Development of Exceptional Talents - NODET), Tehran, Iran** > **Diploma** in n Mathematics and Physics Discipline. GPA : 19.75/20

☰ Skills

Programming	Python, Java, C, C#, matlab
ML Frameworks	Pytorch, Keras
ML Paradigm	Computer Vision, Natural Language Processing
Web	Django, HTML, CSS, JavaScript
Database	SQL, MDX

💼 Professional Experience

2019 - Present	**Graduate Research Assistant, University of British Columbia, Vancouver** > Working under the Supervision of Prof. **James Little** and Prof. **Helge Rhodin** at **Computer Vision Lab** > **Thesis title** : Hierarchical Part-based Disentanglement of Pose and Appearance > Learning interpretable image representations from unlabled data, which encode objects' parts, their hierarchy, and their disentangled pose and appearance. `Pytorch` `Computer Vision` `Deep Learning`
2017 - 2018	**Research Assistant, Sharif University of Technology, Tehran** > Learning Persian Word Embedding, and inferring semantic relationships between word embeddings. `Natural Language Processing` `Machine Learning` `Visualization`
Summer 2017	**Data Analyst Intern, Tosan Intelligent Data Miners Company, Tehran** > Automatization of analysis of system logs to detect anomalies in data marts. `Text Mining` `SQL` `MDX`

✏️ Teaching Experience

2018 - Present	**Graduate Teaching Assistant, University of British Columbia, Vancouver, BC, Canada** > Computer Vision > Machine Learning and Data Mining > Intermediate Algorithm Design and Analysis > Introduction to Relational Databases
2013 - 2018	**Teaching Assistant, Sharif University of Technology, Tehran, Iran** > Modern Information Retrieval > Advanced Programming in Java > Fundamentals of Programming (C) > Computer Networks

🖥 PROJET HIGHLIGHTS

DANCE MOTION TRANSFER
WINTER 2019

🔗 Project Report

We designed and trained a model for transferring dance motion and background from a source video to a target video, using pose as an intermediate representation, and the median pixel value across all frames as a background.

`Pytorch` `Video to Video Translation` `Pose Detection` `Background Detection`

TEXT TO IMAGE
WINTER 2018

🔗 Project Report

We trained a model for translating texts into images, using text embedding as the intermediate representation. To assess the importance of text embedding in the task of text-to-image synthesis we tested different text encoders, and achieved state-of-the-art results with simpler text embedding than the baseline.

`Pytorch` `Text to Image Translation` `GAN`

FAKE NEWS DETECTION
WINTER 2018

🔗 Source Code   🔗 Project Report

I designed a model for fake news detection, using CNNs as the text encoder and on top of that having an attention layer to focus more on important parts of the text.

`Pytorch` `CNN` `Attention`

RECIPE AND FOOD IMAGE RETRIEVAL
FALL 2018

🔗 Project Report

We proposed a model that aimed to learn embedding of cooking recipes and food images, which yielded good results on retrieving images of cooking recipes and retrieving cooking instructions for food images.

`Pytorch` `GCN` `LSTM` `Information Retrieval`

👥 EXTRACURRICULAR EXPERIENCE

2015-2016	Elected as one of the nine major members of Computer Engineering Department's **Student Scientific Chapter (SSC)** of Sharif University of Technology > **SSC** is a student committee concerned with holding seminars, workshops, programming contests, and other extracurricular activities.
2015-2016	Voluntarily teaching Mathematics and Alphabets to Afghan child workers, those who were deprived of education at **Iranian Child Labor Community**
2014, 2015, 2016	Certified Staff, 39th, 40th, and 41th **ACM** International Collegiate Programming Contest, Asia region site, Sharif University of Technology

⭐ HONORS AND AWARDS

2013 - 2018	Premium member of Iran's National Elites Foundation
Summer 2012	**Silver Medal** in the 30th Iranian National Mathematical Olympiad
2006-2013	Member of the National Organization for Development of Exceptional Talents **(NODET)**

🌐 LANGUAGES

Persion ●●●●●
English ●●●●○

➕ STRENGTHS

> Quick learner
> Passionate for Learning New Things
> Good Team Player