MARYAM HONARI

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EXPERIENCE

Machine Learning Engineer Unity Technologies, Vancouver, BC	Feb 2021 - Present
 Develop Machine learning tools to train intelligent agents in games and sim Maintain PyTorch open-source ML-agents package, implement SOTA RL a Focused on performance improvements for distributed rendering and training 	lgorithms
Machine Learning Engineer Kabam Games, Vancouver, BC	May 2019 - Jan 2021
 Train reinforcement learning agents for play-testing and game balancing Design and development of game agnostic reinforcement learning platform 	
Data Scientist Intern Synopsys Software, Vancouver, BC	Sep 2017 - Dec 2017
– Improved and deployed the accuracy of a legal agreement classifier by 10% ,re with TF-IDF and word2vec features	trieve the risky information
Research Collaborator Neurolinguistics Lab, NYU,	Sep. 2018 - March. 2019
 Investigate correlation of computational Semantic representation with br language composition and production tasks. Tools: skipgram, MNE-python 	° 0
Computer Vision Researcher Intern CIVIP Lab, Shiraz University, In Advised by Dr. Zohreh Azimifar	ran Jun. 2015 - Nov. 2015
 Contributed to design and implementation of Vehicle Speed Estimation sys Tuned License Plate Recognition System (LRP) in the day and night condition 	

EDUCATION

University of Victoria	Victoria, Canada
M.Sc. Computer Science, Supervisor : Dr. Alona Fyshe	Overall GPA: 4.22/4.33
Research : Machine learning, Natural Language processing	Sep. 2016 - Apr.2019
Shiraz University	Shiraz, Iran
B.Sc. Computer Engineering (Software Engineering)	Overall GPA: 18.06/20.0
Ranked 4 th among 100 CE students	Sep. 2012 - Jul. 2016

PUBLICATIONS

Neural representation of words within phrases: Temporal evolution of color-adjectives and object-nouns during simple composition [PDF] [code] Honari, M., Chouinard, Blanco-Elorrieta, Pylkknen, Fyshe, PLOS ONE Journal, 2021

Decoding semantic representations during production of minimal adjective-noun phrases Master's Thesis, 2019 (Computer Science, University of Victoria) [PDF]

Ensemble Methods for Native Language Identification [PDF] Honari, M., Chan, Benetti, Lakhani, Fyshe, EMNLP17 BEA workshop , 2017

RELATED PROJECTS

Convolutional Neural Networks for Facial Expression Recognition

- Developed an online application to predict emotions in real-time

 Explored three neural network architectures and achieved accuracy of 68.2% on FER2013 dataset Tools: Keras, Tensorflow, OpenCV, python

Oscars' Winners and Nominees prediction

- Explored impact of social profile of a movie on nomination or winning of an academy award
- Achieved 64% accuracy on nominees and 41% accuracy on winners of last 50 academy awards
 Tools: python, scikit-learn, Pandas, numpy, matplotlib

Facial Recognition system

- Built an online application to dynamically recognize faces in videos
- Performance of Eigen faces, Fisher faces, LBPH and KNN were compared on variety of datasets Tools: C++, OpenCV

Parallel Graph Algorithms on GPU

- Developed BFS, Floyd-Warshall and graph colouring algorithms on CUDA platform
- 90x speed up in Floyd-Warshall for a graph of 2k nodes Tools: CUDA, C++

Correlation Between Transportation Expansion and Socioeconomic Effects

Developed a Tableau visualization to represent how transportation system expansion correlated the socio-economic indices like income and house affordability, in London, UK in recent years
 Tools: Tableau, python, panadas

TEACHING ASSISTANT

Algorithms and Data Structures University of Victoria **Design and Analysis of Algorithms** Shiraz University Data Structures & Algorithms Shiraz University **TECHNICAL SKILLS** • C/C++ • Java • C# • Python • MATLAB **Programming Languages** • SQL • PHP • Javascript • CSS • HTML • Pytorch • Tensorflow2 • OpenCV • CUDA • Docker & Kubernetes • AWS & GCP platforms & Frameworks • Flask • Tableau • LaTeX • Git • Unity

HONORS AND AWARDS

Grace Hopper Celebration Speaker , Enabling Cooperative Behaviors in Multiplayer Ga Deep Reinforcement Learning		Using <i>2021</i>
Placed 2nd at the Native Language Identification (NLI) Challenge at EMNLP Conference	Sep,	2017
Volunteer mentor at Science Venture workshop	Aug.	2017
Department Fellowship and \mathbf{RA} position from University of Victoria	Sep.	2016
Prospective department Fellowship and \mathbf{RA} position from University of Alberta	Sep.	2016
Ranked 12 th among 155 teams in AI Challenge A multi-agent survival challenge held by <i>Sharif University of Technology</i>	Feb.	2015
Honorable mention in the regional ACM-ICPC, Tehran, Iran	Dec.	2013
Semi-finalist in Iranian National Olympiads in Math and Informatics	010 E	2011