Soroush Javdan

Curriculum Vitae

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Education

2017–Present **Master of Computer Engineering (Artificial Intelligence)**, *Department of Computer Engineering, Iran University of Science and Technology, Iran, Tehran GPA 3.77/4,*
Supervisor: Dr. Morteza Analoui,
Thesis: Improving Meta-learning usage in Personalized Dialogue Generation. We tried to improve applying meta-learning in personalized dialogue generation task; we are using the transformer model as a seq2seq model, and Model-Agnostic Meta-Learning algorithm for meta-learning. Also, We are using the Facebook Personalizing Dialogue dataset. To achieve this goal, we use two novel approaches. The first approach uses clustering to group similar persona and trains agent on clusters with meta-learning. For the second approach, during the test phase, we fine-tune the network's w.r.t the two most similar points from the training set to current test data, and then uses actual test dialogues to fine-tune more accurately..

2010–2016 **Bachelor of Computer Engineering**, *Kharazmi University, Iran, Tehran*,
Supervisor: Dr. Azadeh Mansouri.
Bachelor Thesis: Video summarization using the motion vector Using the MPEG algorithm to extract motion vectors from each frame, then use them as a feature for the K-mean algorithm to cluster frames in order to extract keyframes and create a final summary base on them.
Thesis Grade: 20/20

Research Interest

o Natural Language Processing

o Deep Learning

o Software Engineering

o Data Mining

Experience

Research Assistance

2018–Present A member of Future Network and Artificial Intelligent Lab at Iran University of Science and Technology. I've been working on Machine Learning, Deep Learning, Reinforcement Learning, and their application in Natural Language Processing.

Teacher Assistance

Winter 2020 **Data Mining** , M.Sc., Instructor: Dr. Behrouz Minaei Bidgoli

Fall 2019 **Natural Language Processing** , M.Sc., Instructor: Dr. Behrouz Minaei Bidgoli

Fall 2019 **Machine Translation** , M.Sc., Instructor: Dr. Behrouz Minaei Bidgoli

Fall 2019 **Pattern Recognition** , M.Sc., Instructor: Dr. Morteza Analoui

Spring 2019 **Neural Networks** , M.Sc., Instructor: Dr. Naser Mozayeni

Work Experience

2017–Present **Machine Learning Freelancer**

2016–2017 **Software Engineer, Machine Learning** at NetBarg.com

2013–2015 **Android Developer**, Senior Android Developer at IRISTed, IDEK, ParmisIT

Publication

S. Javdan, T. Shangipour Ataei, B. Minaei-Bidgoli "IUST at SemEval-2020 Task 9: Sentiment Analysis for Code-Mixed Social Media Text using Deep Neural Networks and Linear Baselines", accepted in COLING'2020. preprint available at arxiv.org.

T. Shangipour Ataei, S. Javdan, B. Minaei-Bidgoli "Applying Transformers and Aspect-based Sentiment Analysis approaches on Sarcasm Detection", published at Proceedings of the Second Workshop on Figurative Language Processing .

T. Shangipour Ataei, K. Darvishi, S. Javdan, B. Minaei-Bidgoli, S. Eetemadi "Pars-ABSA: an Aspect-based Sentiment Analysis dataset for Persian", submitted in Computer Speech and Language journal. preprint available at arxiv.org .

S. Javdan, K. Darvish, T. Shangi, B. Minaei, "Offensive Language Detection on Persian Social Media", in progress.

Selected Project

Jaundice detection in newborns; I develop an android application in order to detect infant jaundice by analyzing the blood drop on nanosensor, using image processing. The product was presented at the Tehran International Nanotechnology Exhibition.

Netbarg.com Sentiment Analytic; Netbarg.com Sentiment Analytic using Deep Learning

Python Implementation of RandomBalanceBoost; "Pattern Recognition" course project

Implementing sentiment analytic using Deep Learning for Digikala.com dataset; "Natural Language Processing" course project

BERT embedding with CNN on Emotion Detection task "Advanced Data Mining" course project

Dialogue Natural Language Inference with Bert classifier; I developed a NLI using Facebook Dialogue NLI dataset

Multi-agent Simulation of Auctions; "Multi Agents" course final project

Develop software to help optimizing control valve in order to energy saving in Gheshm Sarkhun Gas Refinery; work as a freelancer for Iran Research Institute of Petroleum Industry

Honors and Awards

Rank top 0.6% among approximately among 30,000 participants in National Graduate Entrance Examination in computer engineering (Artificial Intelligent)

Chair of the Computer Engineering Scientific Association at Kharazmi University.

Bronze Medal winner of Iran National Water Polo League member of NIOC team.

Gold Medal winner of Iran National Water Polo Super Cup member of NIOC team.

Selected Course

o Data Mining 19.89/20

o Search Engine 18.5/20

o Mobile Network 18.75/20

o Natural Language Processing 16.81/20

Technical Skills

Programming Languages Python, Jave, Matlab, Kotlin

Packages and Frameworks Pytorch, Keras, TensorFlow, skit-learn, Gensim, OpenAI Gym, Android Framework

Test Score

TOEFL 104 (R:28 L:30 S:23 W:23)

Interests

o Water Polo (professional)

o Hiking

o Traveling

o Blogging

References

References are available upon request.