ALI HEJAZIZO

MACHINE LEARNING ENGINEER

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HIGHLIGHTS

- Machine Learning Engineer: 5+ years of professional experience in designing, developing, and deploying machine learning pipelines.
- Natural Language Processing Expert: 5+ years of research and industrial experience in NLP.
- Mentor and Educator: 3+ years of teaching experience in Python, Machine Learning, Deep Learning, Statistics, Linux, Git, and more, with 100+ students mentored.

RESEARCH INTERESTS

- Natural Language Processing
- Large Language Models
- Computer Vision

EDUCATION

M.Sc. of Computer Science   *University of Alberta*
2016 - 2020

- GPA: 3.9/4
- Thesis:
  - Combining Variational Sampling and Metropolis–Hastings Sampling for Paraphrase Generation
  - Supervisor: Denilson Barbosa

B.Sc. of Electrical Engineering   *Amirkabir University*
2011-2015

- GPA: 4/4

WORK EXPERIENCE

Senior Machine Learning Engineer   *Affinity*
2019 - Present

2+ years in development and deployment of natural language processing and computer vision models.

Machine Learning Engineer   *AltaML*
2018 - 2021

3+ years in development and deployment of machine learning algorithms.

- Chatbots, Text classification, Entity extraction, Spelling correction, and Sentiment Analysis.

PUBLICATIONS

- A., Rezaei, A., Shazeer, N., Parmar, N., Uszkoreit, J., Jones, L., Gomez, A.N., Kaiser, Ł. and Polosukhin, I., 2017. Attention is all you need. Advances in neural information processing systems, 30.
- Gorgan, A., Rezaei, P.V., Wetzer, J.M., Verhaart, H.F., Wouters, P.A., Van Schijndel, A. and Tanasescu, G., 2012, May. Calculation of the remaining lifetime of power transformers paper insulation. In 2012 13th International conference on optimization of electrical and electronic equipment (OPTIM) (pp. 293-300). IEEE.

PROJECTS

Natural Language Processing for Sentiment Analysis

Amirkabir University
Jan2020 - Dec 2021

- Conducted an in-depth study on the latest Natural Language Processing (NLP) techniques for sentiment analysis, focusing on social media data.
- Successfully published the research findings in the respected "Journal of Natural Language Processing," contributing to the field's knowledge base.
- Collaborated closely with the project supervisor, Denilson Barbosa, to ensure project alignment with research objectives and milestones.

AltaML
2019

Recommender System for E-Commerce

- Designed and executed a personalized recommender system tailored for an e-commerce platform, leveraging collaborative filtering and deep learning methodologies.
- Applied advanced techniques to enhance user experience and boost conversion rates, resulting in a remarkable 20% improvement in click-through rates.

HONORS AND AWARDS

- Ranked 1st in Electrical Engineering, Power Group, among more than 30 students.
- Granted admission from Talented Student Office of Amirkabir University of Technology for graduate study.

SKILLS

- Programming: Python, C, C++
- Frameworks: PyTorch, Tensorflow, Django, FastAPI
- Cloud: AWS (EC2, S3, Lambda, ElasticBeanstalk, SageMaker)
- NLP: NLTK, Gensim, Transformers

CERTIFICATES

- Complete Python Bootcamp: Go from zero to hero in Python 3
- Data Analysis Course with Pandas : Hands on Pandas, Python
- The Ultimate MySQL Bootcamp: Go from SQL Beginner to Expert
- Parallel Programming using GPGPU and CUDA
- Data Analysis Course with Pandas : Hands on Pandas, Python
- Docker Mastery: with Kubernetes +Swarm from a Docker Captain

REFERENCES

- Denilson Barbosa
  - Co-Supervisor (denilson@ualberta.ca)

- Lili Mou
  - Co-Supervisor (lmou@ualberta.ca)