ALI ELAHI

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EDUCATION

Master of Science Fall 2022 – Spring 2024 University of Illinois at Chicago ☑

— Computer Science 🗹

Focused in Information Retrieval

— GPA: 4

Bachelor of Science

2017 - 2022

University of Tehran 🗹

Computer Engineering/Science

Focused in Data Science

— GPA: 3.5

Mechanical Engineering

— GPA: 3.2

Honors

- Bronze Medal in National Chemistry Olympiad
- Ranked within the Top 0.1% Nationwide
 University Entrance with 160K Participants
- Member of Iran's National Elites Foundation

COURSEWORK

Quantitative Finance (Currently) Financial Markets (Currently)

Big Data Mining (A) Computational Economics (A)

Information Retrieval (A) Deep Learning & Applications (A)

Internet Engineering (A) Reinforcement Learning (A)

PUBLICATIONS

Predicting Surface Water Bacteria Levels Using Domain Adaptation Under Submission

A Comparative Study of Recommendation Algorithms: Online and Offline Evaluations on a Large-scale Recommender System in Iran 2020

FIELDS OF INTERESTS

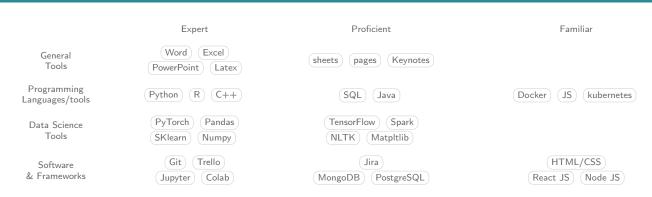
Analytical BA

Data Mining

Information Retrieval

Quant Finance/Econ

SKILLS



WORK HISTORY AND EXPERIENCES

University of Illinois at Chicago

September 2022 - now

Prof. Samuel Dorevitch 🗹 Prof. Cornelia Caragea 🗹

— Data Scientist: Office Of Naval Research Grant - Semi-Supervised Domain Adaptation in Water Quality Prediction

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Summer 2020 - Winter 2021

- Business Analyst: Designing an advertisement bidding system Clients' profitability analysis
- Data Scientist/Analyst: Development and Maintenance of a Large-Scale Recommendation-System

Treasurer @ Association of Computer Machinary (ACM) Student Chapter @ Uni of Tehran

Head Teaching Assistantship

Dr. Hakimeh Fadaei 🗹 , Assis. prof. Ehsan Khamespanah 🖸

— Artificial Intelligence, Internet Engineering, and Statistics Classes @ Uni of Tehran

NOTABLE ACADEMIC PROJECTS

Finance

- Security Price Time-series Analysis
 Price Prediction Using Sequential ML Models (LSTM) For SP500, BTC, AAPL
- Buy, Hold, or Sale?
 Reinforcement Learning Model (MDP) for Trading Based on Next Day Price Prediction

Deep Learning

- English to Persian Machine Translation with Transformer On 1 GB Corpus Using Pytorch
- Relation Extraction Task SemEval Dataset Using Bi-LSTM Architecture Using Pytorch
- Image Captioning Model Trained on Flicker8k Convolutional + Bi-LSTM Using Pytorch
- Image Colorization Stylization-based Architecture for Fast Deep Exemplar Colorization 🗹
- CCNN: Crowd Counting via Multi-Column Convolutional Network Using pytorch
- SegNet: Pixel-Wise Semantic Segmentation
 Deep Convolutional Encoder-Decoder for Robust Pixel-Wise Labelling Using Pytorch
- MLP Neural Network with Numpy on UTK Faces from Scratch!

Reinforcement Learning

- Markov Decision Process Profit Optimization On-policy/Off-policy Monte-Carlo, Double Q-learning, Tree Back-up, SARSA and n-Step Expected SARSA 🔀
- Policy Iteration Algorithm for a Profit Maximization Problem 🗹
- Decision Making Using N-armed Bandit 🗹

Internet Engineering

— Development and Deployment of a Food Ordering and Delivery Website **Z** Frameworks and Technologies: Spring, PostgreSQL, ReactJS, Docker, Kubernetes

REFERENCES

Prof. Cornelia Caragea 🗹	✓ Mail	Prof. Samuel Dorevitch 🗹	Mail
Assis. prof. E. Khamespanah 🗹	✓ Mail	Dr. Hakimeh Fadaei 🗹	✓ Mail