# ALI ELAHI

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**Q** ae1999

in alielahi99

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### **EDUCATION**

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

— 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

September 2022 - now

# FIELDS OF INTERESTS

Finance Data Mining

Machine Learning Quant Finance/Econ

## **SKILLS**



# WORK HISTORY AND EXPERIENCES

### University of Illinois at Chicago

Prof. Samuel Dorevitch 🗹 Prof. Cornelia Caragea 🗹

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

Yektanet Co. 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 🗹	<b>✓</b> Mail	Prof. Samuel Dorevitch 🗹	Mail
Assis. prof. E. Khamespanah 🗹	<b>✓</b> Mail	Dr. Hakimeh Fadaei 🗹	<b>✓</b> Mail