Alireza (Sepehr) Ilami

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in Linkedin

Github

Education

2023 - Present

Ph.D., Industrial Engineering

Northeastern University - Boston, MA, USA

My primary research is on Complex Social Systems, mostly on how various large-scale policies can affect agents' rationales and decision-making processes.

2018 - 2023

B.Sc., Computer Engineering
Sharif University of Technology - Tehran, Iran

Research Interests

- Complex Social Systems
- Network Science
- Human-AI Interactions
- System Dynamics

Research Experience

Jun 2022 - Sep 2022

Research Assistant, UC Berkeley - CA, USA

Supervisor: Prof.Niloufar Salehi, School of Information.

Keywords: [Human-Computer Interaction, Online harassment]. I was working on Twitter data with quantitative and qualitative methods to understand how some users abuse and harass others, how both sides feel before and after the incident, and how we can stop these harmful actions and create a better internet society.

Jun 2021 - Apr 2022

Research Assistant, EPFL - Switzerland

Supervisor: Prof.Alexandre Alahi, VITA lab.

Keywords: [Computer Vision, Self-driving vehicles] I was primarily developing a framework to integrate multiple autonomous vehicle datasets to help the model learn more generally. I also worked on trajectory prediction using neural networks, causal inference, and theoretical methods.

Publications

Book Chapter

■ COVID-19 Diagnosis with Artificial Intelligence R.G. Modegh, A. Salimi, S. Ilami, A.H. Dehqan, H. Dashti, S.H. Javanmard, H. Ghanaati, H.R. Rabiee.

SPRINGER NATURE, 2022

Teaching Assistant Experience

- Scientific & Technical Presentation Spring 2022, Fall 2021, Spring 2021
- Discrete Structures Spring 2022, Spring 2021
- Artificial Intelligence Spring 2022
- Linear Algebra FALL 2020
- Computer Structure and Language Spring 2021
- Advanced Programming Spring 2020

Work Experience

Feb 2021 - Jul 2022

Human Resources Generalist, AI-MED
Recruitment process, interviewing with applicants, employee relations, company culture, etc.

Oct 2020 - Jul 2021

R&D Data Scientist, AI-MED
Medical Imaging, worked on CT & X-ray images for COVID-19 infection and lung cancer detection, using deep neural networks

Aug 2020 - Oct 2020 **Data Science Intern,** AI-MED

Worked with CNN & DNN networks and GAN for image classification - worked with RNN for NLP

Selected Courses (grade out of 20)

Game Theory	20	Artificial Intelligence	20	System Dynamics (MSc)	19.2
Technical Presentation	20	Eng Probability&Stat	20	Digital System Design	20
Adv Info Retrieval	19.6	Computer Simulation	19.6	Data Struct&Algo	18.8
Design of Algorithms	18.4	Discrete Structures	18.4	Numerical Computation	18.3

Awards and Achievements

2018 Rank 101st

Iran University Entrance Exam - in the top 0.1% (150000 participants)

2012 - 2015 **Silver and Bronze Medals**

Iran Teenagers Math Olympiad (Middle School)

Extracurricular Activities

2021 DataDays 2021 (Content Management Specialist)

2020 WSS 2020 (Manager and Director), DataDays 2020 (Scientific Staff),

2019 CSSS 2019 (Academic Mentor), ICPC 2019 (Executive Staff), WSS 2019 (Executive Staff),

Skills

Languages Python, R, Java, C++, C, HTML, CSS, Mips, Verilog, VHDL

ML Frameworks PyTorch, NumPy, Pandas, OpenCV, Matplotlib

Tools Vensim, ModelSim, Quartus, Proteus

Languages

■ English: Advanced (IELTS: 8 - L:9, R:9, W:6.5, S:7) Persian: Native Spanish: Elementary

Hobbies

Chess, Volleyball, Books, Movies, Social engagements