

Elahe Dastan

DATA SCIENTIST · BACKEND DEVELOPER

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Summary

I am currently a computer engineer student at Amirkabir university of tech and a passionate software engineer at Snapp Cab. I love solving challenges, designing and writing programs. I tend to be a data scientist, I have taken related courses at university and done self learning projects and I can firmly say this is what I want to do in future.

Research Interests

- Deep Learning
- Distributed Systems
- Reinforcement Learning
- GAN

Education

Amirkabir University of Technology

No. 350, Hafez Ave, Valiasr Square,
Tehran, Iran 1591634311

B.SC. IN COMPUTER ENGINEERING

2017 — current

- Engineering Statistics – Dr. Asili – Spring 2019 – 16.08 of 20
- Special Topics (Applied Linear Algebra) – Dr.Mazlaghani – Spring 2019 – 15.5 of 20
- Principles and Applications of Artificial Intelligence – Eng.Mousavi – Fall 2019 – 19.74 of 20
- Principles of Computational Intelligence – Dr. Ebadzadeh – Spring 2020
- Data Mining – Dr.Mazlaghani – Fall 2020 – 16.17 of 20
- Information Retrieval – Dr.Nikabadi – Fall 2020 – 19.25 of 20
- Signal and Systems – Dr.Rasti – Fall 2020
- Introduction to Bioinformatics – Dr.Zeinali – Spring 2021
- Algorithm Design – Dr.Borbor – Fall 2019 – 16.5 of 20
- Operating Systems – Dr.Zarandi – Fall 2019 – 18.1 of 20

Amirkabir University of Technology

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Tehran, Iran 1591634311

GRADUATE COURSES

- Machine Learning – Dr.Nazerfazrd – Spring 2021

Work Experience

Dotin

No. 33, East Nahid, Nelson Mandela
(Africa) Blvd., Tehran, Iran

INTERN

Jul 2019 - Sep 2019

- Worked with Java Technologies like Hibernate

Alibaba Acedemy

No. 1, Golha, 4th Bimeh, Ekbatan,
Tehran, Iran

INTERN

Dec 2019 - Feb 2020

- Introduced to C#
- Built a Booking and URL Shortener application with C#
- Built a URL Shortener application with Golang
- Familiar with Test-Driven Development and Behavioural Testing

Snapp!

No. 1, Saeedi, Valiasr, Tehran, Iran

BACKEND DEVELOPER

Aguest 2020 - now

- Design and Write Software with Go
- Deploy Applications on Kubernetes
- Design Systems Architecture
- Document APIs with OpenAPI

Teaching Experience

Projects

Traffic Forecasting using Deep Learning Approach (<https://github.com/elahe-dastan/fortune-teller>)

B.Sc. THESIS

- Traffic forecasting especially in long rides plays an important roll in Intelligent transportation system.
- This time series problem is complex because both spatial and temporal features should be used for a good prediction.
- This project use convolution on graphs and RNNs in hope of getting a good accuracy.

NewBorn (<https://github.com/elahe-dastan/newborn>)

PERSONAL

- Implementing Machine Learning algorithms in Go from scratch

Fallgosh (<https://github.com/elahe-dastan/fallgosh>)

PERSONAL

- Opinion mining on Persian tweets
- A complete project containing the model (SVM), simulator, rabbitmq and prometheus

Hands on ML (<https://github.com/elahe-dastan/hands-on-ML>)

PERSONAL

- Based on Hands-On Machine Learning with Scikit-Learn, Keras, and TensorFlow, 2nd Edition

ML Master AUT (https://github.com/elahe-dastan/ML_Master_AUT)

PERSONAL

- Classical ML algorithms in python
- DQN
- OpenAI

Information Retrieval (<https://github.com/elahe-dastan/shakhes> <https://github.com/elahe-dastan/jayeze>

<https://github.com/elahe-dastan/trunk>)

PERSONAL

- Micro-service architecture
- Indexing documents (shakhes project), normalizing (trunk project) and searching through them (jayeze project)
- Data processing pipeline

Shovel (<https://github.com/elahe-dastan/shovel>)

PERSONAL

- Data mining course projects
- Titanic challenge

Rahnama (<https://github.com/elahe-dastan/rahnama>)

PERSONAL

- Fraud detection challenge

HTTP Monitoring (<https://github.com/elahe-dastan/HTTP-monitoring>)

PERSONAL

- Has micro-services design
- Each service has an specific role with minimum requirements
- It uses NATS for job dispatching

Skills

Data Science	Python (NumPy, Pandas, Scikit-learn, Pytorch, Flask), Classic machine learning, Deep learning, MLFlow
Backend Development	Go, Python3, C, Java, C#
Frontend Development	HTML, CSS, Javascript, Vue.js
Databases	MySQL, PostgreSQL, Spark
Operating Systems	Windows, Ubuntu
Tools	Git, Docker, Kubernetes, Helm
Languages	English(Fluent), Persian(Native)

References

Prof. Maryam Amir Mazlaghani

ASSISTANT PROFESSOR

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Prof. Reza Safabakhsh

PROFESSOR

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