

Ali Nazari

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Education

Amirkabir University of Technology

Tehran, Iran

B.Sc. Computer Engineering (GPA: 3.52/4)

Oct. 2017 – Present (Dec. 2021 Expected)

- Thesis (Recently started): Persian Poetry Generation using Deep Neural Networks

Alborz High School

Tehran, Iran

Mathematics (GPA: 19.86/20)

Aug. 2013 – Sept. 2017

Research Interests

- Natural Language Processing
- Machine Learning
- Deep Learning
- Data Mining
- Recommender Systems
- Information Retrieval

Research Experience

Poem Metre Detector | NLP, Machine Translation

May. 2021 - Present

- A sequence to sequence model to predict metre of persian poems
- Using an encoder-decoder architecture with different structures like GRU, LSTM, and attention mechanism
- Under supervision of [Prof. Zeinali](#)
- will release and publish soon

Work Experience

Machine Learning Engineer

Mar. 2021 – Present

Bale Messenger (A Social Payment Platform)

Tehran, Iran

- Research, design, and develop a service to answer customers' questions in an e-banking platform
- Provide a classification service to classify Persian questions with different word embeddings like BERT and Fasttext
- Develop a service to find similar questions using both deep learning and retrieval methods
- Participate in designing a recommender system to recommend channels in a messenger
- Core member of data science chapter

Software Developer

Aug. 2020 – Mar. 2021

Bale Messenger (A Social Payment Platform)

Tehran, Iran

- Developed a new reactive web application with an MVI (Model-View-Intent) architecture
- Contributed as a core member of [new Bale messenger client](#) which implemented in TypeScript
- Used modern front-end technologies like ReactJS, RxJS, Redux, ...

Self Projects

Digikala Sentiment Analysis | NLP, Deep Learning, LSTM

Summer 2021

- Predict whether a comment left in [Digikala](#) is recommending a product or not.
- Used text classification methods and an LSTM model with fastai

Part of Speech Tagger | NLP, BERT

Winter 2021

- A POS (Part-of-speech) tagger to grammatically classify tokens (noun, verb, adjective...) in a sentence.
- Used a pre-trained model name ParsBERT, a transformer-based Persian language understanding model, and a monolingual one based on Google's BERT model
- Fine-tuned with Bijankhan Corpus

Iran Covid-19 Clusters | ML, Clustering

Fall 2020

- Used different clustering approaches like K-Means, DBScan, ...
- Cluster Covid-19 cases in Iran
- Find cities highly affected

Toggl | TypeScript, ReactJS, Redux

Summer 2020

- Toggl is a time tracker developed with TypeScript and ReactJS
- You can start time entries with toggl and track or manage them
- This is a mobile-based client and connected to my real Toggl account through Toggl API

Volunteer Experience

Chairman

Mar. 2019 – Sep. 2020

Students' Scientific Chapter of AUT-CE

Tehran, Iran

- Elected as a member and head of the management board by students of the [CE Department of Amirkabir University](#)
- Organized more than 40 events, talks, competitions, festivals, seminars, and workshops
- Took part as an executive and technical committee member and head of many conferences, workshops, festivals, and competitions such as:
 - 19th Amirkabir University of Technology International Collegiate Programming Contest ([AUT-ICPC](#)) (Fall 2019)
 - 11th [Amirkabir Linux Festival](#) (Winter 2020)
 - 6th Amirkabir Programming League (APL 2019) (Spring 2019)
 - 1st Amirkabir Artificial Intelligence Summer Summit ([AAISS](#) 2019) (Summer 2019)

Notable Course Projects

Information Retrieval: [Search Engine](#) (TF-IDF, clustering, and classification)

Data Mining: [Predict student marks](#) (Regression), [Predict Titanic survival](#) (Decision Tree), [Predict heart disease](#) (Naive Bayes and KNN), [PCA on Glove word representation](#)

Computational Intelligence: [TSP](#) (Genetic)

Artificial Intelligence: [Poet Predictor](#) (N-gram language model), [Classical Tree Search Algorithms](#)

Cloud Computing: [Load balancer](#), [VM manager cli](#)

Principles of Database Design: [Restaurant Manager Application](#)

Online Courses and Certificates

Machine Learning: [Coursera \(Stanford University\)](#)

Neural Networks and Deep Learning: [Coursera \(deeplearning.ai\)](#)

Python: [Kaggle](#), [DataCamp](#)

Teaching Experiences

Teaching Assistant, Software Engineering II (Fall 2021): Coordinating the team, designing projects, and grading assignments

Teaching Assistant, [Principles of Computer Programming lab](#) (Fall 2020): participate in designing laboratory materials

Technical Skills

Data and Machine Learning Tools: Pandas, Numpy, scikit-learn, Pytorch, Transformers

Programming and Scripting Languages: Python, JavaScript, TypeScript, Java, HTML/CSS/SASS

Web Frameworks and Databases: ReactJS, Redux, RxJS, NodeJS, Flask, Fastapi, Django, gRPC, SQL, PostgreSQL

Soft Skills: Humble, Teamwork, Patience, Accountability, Leadership

Graphic Design: Adobe Photoshop, Adobe Illustrator, Adobe XD

Operation Systems: Linux, Windows

Developer Tools: Git, Docker

References

Hosein Zeinali: Assistant Prof., Computer Engineering Dept., Amirkabir Univ. of Technology | hzeinali@aut.ac.ir

Bahador Bakhshi: Assistant Prof., Computer Engineering Dept., Amirkabir Univ. of Technology | bbakhshi@aut.ac.ir

Masoumeh Taromi: Assistant Prof., Computer Engineering Dept., Amirkabir Univ. of Technology | m.taromirad@aut.ac.ir

Languages

English | *Will take Toefl iBT*

Persian | *Native*

Honors and Awards

- Achieved top 0.3% (Rank 425) place among all applicants of the Nationwide University Entrance Exam for B.Sc. in Math. and Engineering (Approximately 137000 applicants), Iran - August 2017.
- Accepted in 1st stage of Chemistry Olympiad in National Organization for Development of Exceptional Talents, Iran - June 2015.