

MACHINE LEARNING ENGINEER

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Education

TU/e and KTH Stockholm, Sweden

MASTER'S DEGREE IN DATA SCIENCE

Sep. 2018 - Aug. 2020

- First year TU/e, Second year KTH
- Attained EIT scholarship of excellence. Tuition fee waiver.
- Average Grade: 8.28/10

Amirkabir University of Technology

Tehran, Iran

Sep. 2013 - Aug. 2018

B.S. IN SOFTWARE ENGINEERING

- Ranked in the top 1000 out of 952,000 participants in the university entrance exam (Konkour)

Notable Projects and Courses

TU/e and KTH

Eindhoven and Stockholm

MASTER'S IN DATA SCIENCE

- · Scalable Machine Learning and Deep Learning: A, Histogram Method for Adverserial Example Detection Project
- Data intensive computing: A, Real-time Subtitle Rating Project
- Self-studied Mathematics for Machine Learning book
- Advanced Algorithms: A
- Data Engineering: A
- Applied Statistics: A
- Visualization: A, 3D Rendering Project
- Self-studied Reinforcement Learning: An Introduction
- · Self-studied All of Statistics: Concise Course in Statistical Inference by Wasserman, My Solutions

Amirkabir University of Technology

Tehran, Iran

B.S. IN SOFTWARE ENGINEERING

- Engineering Mathematics: A
- Foundations of Matrices and Linear Algebra: A
- · Signals and Systems: A
- Statistical Machine Learning (Master's course taken during Bachelor's): B

Research and Teaching Experience

Klarna Stockholm, Sweden

WEB AUTOMATION RESEARCH TEAM

- Contributed to the paper: The Klarna Product Page Dataset: A Realistic Benchmark for Web Representation Learning
- Worked in collaboration with IVL to create a carbon emissions estimator model for textile products as part of my master thesis: Combining Learned and Analytical Models for Predicting CO2e Emissions in Textile Products

Institute for Cognitive Sciences Studies

Tehran, Iran

INTERNSHIP

Aug. 2017 - Sep. 2017

- Worked with fNIRS brain imaging device for analyzing brain signals of finger tapping.
- Translated and edited a Persian manual to be used by future students of the institute.

Amirkabir University of Technology

Tehran, Iran

TEACHING ASSISTANT

- Data Structures and Algorithms.
- Artificial Intelligence.
- · Engineering Statistics.

Work Experience

Klarna Stockholm, Sweden

MACHINE LEARNING RESEARCH ENGINEER

Aug.2019 - Current

- Scaling and deploying ML models using AWS services (e.g. AWS Lambda, AWS Batch).
- Implemented offline dataset saving for Reinforcement Learning agent to allow offline training.
- Implemented state-of-the-art graph neural network algorithms to create a product-page-scraper.
- Creating efficient representations of web-pages to bootstrap training of RL agent.
- Designed and implemented pipelines for pre-processing semi-structured web page data into efficient tree data structures.
- Contributing to Klarna's open source Web Traversal Library.
- Extensive work with **PyTorch** and **Ray Tune** for hyperparameter tuning.
- Contribute in creating and maintaining CI/CD pipelines for our ML repositories using Jenkins.
- · Worked on developing a data layer to give analysts access to user data in an efficient way using AWS Redshift.
- · Worked with Apache Airflow to schedule and run jobs for data pre-processing.
- Developed developer tools **Docker** with the pre-installed packages to make analyst on-boarding easier.

CafeBazaar Tehran, Iran

Data Engineer - Biggest Ad Marketplace in Iran with more than 10 million monthly users.

Sep.2017 - Sep. 2018

- Implemented Ad category classifier.
- Implement, deploy and maintain Spark and Apache Airflow applications for various ETL pipelines.
- Implemented Chat data clustering to be used for generating prepared messages.
- · Design and analyze user funnel in chat application to allow data-driven decisions and determine business KPI's.
- Scrum master of chat team with great knowledge of agile scrum software processes.

CafeBazaar Tehran, Iran

ANDROID DEVELOPER - BIGGEST AD MARKETPLACE IN IRAN WITH MORE THAN 10 MILLION MONTHLY USERS.

Aug. 2016 - Sep. 2017

- Divar Lead Android Client Developer and Software Engineer.
- Held up Android development workshops for the other team members.
- Designed, developed and published ad acquisition multi-platform chat client with more than 10 million users.
- Worked with RxJava and event driven programming for implementing real-time chat application.
- Extensive knowledge and passion in **OOP** best practices and writing **clean and maintainable** code.

SpotYet Stockholm, Sweden

SOFTWARE DEVELOPER/CO-FOUNDER - SLACKBOT FOR REMOTE CONNECTIONS

- SpotYet is a Slackbot for randomly matching people in channels with fun ice-breakers.
- Back-end development using AWS. Specifically AWS Lambda and DynamoDB.
- Minor contributions in front-end development in **React**.
- Currently being used by more than 40 companies without any advertisement.

Skills

Programming Languages

· Python, SQL, Java

Tools and Libraries

• PyTorch, AWS, Docker, Spark, TensorFlow, Android Development

Certificates _

TOEFL Nov. 2021

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• Reading: 29 Listening: 30 Speaking: 30 Writing: 29 Total: 118

GRE Oct. 2017

GENERAL TEST

• Quantitative Reasoning: 167/170, Verbal Reasoning: 154/170, Analytical Writing: 5/6

DECEMBER 31, 2021 AREF MORADI · RÉSUMÉ