

Amin Dorostanian

MACHINE LEARNING ENGINEER

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“Success is a journey not a destination.”

Experience

Neuroship AI (Own Consultancy Company)

Lienden, Gelderland, NETHERLANDS

MACHINE LEARNING ENGINEER | FOUNDER

February. 2021 - Present

- **ECA:** [ONGOING] Building Enterprise Coding Assistant, a developer tooling that integrates seamlessly with existing workspace apps and leveraging Generative AI (LLMs) makes software development much more efficient
Full-stack development of the application (Svelte, Tailwind, Python, Docker, Kubernetes, CI/CD, OIDC support, Event-driven architecture)
- **MN Asset Management:** [ONGOING] Working on Data Hub to provide a data-driven architecture enabling various applications
Spark, Kafka, Kubernetes, Airflow, AWS
- **ABN AMRO Bank:** Building a platform for data scientists to bring their models to production
Kafka, Azure Cloud Managed Services (Active Directory, etc.), Airflow, Kubernetes
- **Deribit:** Helping, one of the biggest derivative exchanges in crypto world find malicious transactions using ML. Analyzing more than 100 billion rows using Google Bigquery, ML engine and DataFlow
- **Bitvavo:** Working on Bigdata solutions for Dutch crypto Spot exchange in order to give them insights regarding their customers.
Laying the foundation of their data pipelines
Tech Stack: Kafka, BigQuery, Python, Kubernetes, CI/CD
- **Neurolytics:** MLOps and architectural design for their AI platform

Fourkind/ThoughtWorks

Amsterdam, NETHERLANDS

SENIOR MACHINE LEARNING CONSULTANT

September. 2020 - April. 2021

- Working in various domains to carry out projects using Gaussian Mixture Models and Bayesian Optimization
- Recipe optimization for Trident gum with a project carried out for Mondelez
- Involved around all aspects of the life-cycle of the ML projects from modeling to engineering challenges
- Making business impact by leveraging AI tech
- Azure Tools, MLOps, Python, Kubernetes

KLM Royal Dutch Airlines

Amsterdam, NETHERLANDS

SENIOR SOFTWARE ENGINEER (OPERATIONS DECISIONS SUPPORT)

September. 2019 - September. 2020

- Working on Ground Staff Tasks **Optimization Tools.**
- Leading software product together with engineering team and Operation Research Consultants
- Mixed Integer Programming
- Using Kafka, HDFS, Spark over Python and Scala to build applications for planners to allocate tasks for the workers on the airport.
- Working closely with BCG Consultants on implementing innovative optimizers for Airline Operations.

bol.com

Utrecht, NETHERLANDS

MACHINE LEARNING ENGINEER AND SCRUM MASTER

July. 2018 - September. 2019

- Working on **Intent Recognition** for customers questions and conversation analysis.
- Using NLP to comprehend and answer questions in an efficient way to help our customers.
- From prototyping in Python and benchmarking to bringing to production and serving a webservice on Kubernetes
- Java, Spring Boot, Kotlin, GKE, BigQuery, Elasticsearch

bol.com

Utrecht, NETHERLANDS

MACHINE LEARNING ENGINEER AND SCRUM MASTER

Dec. 2017 - July. 2018

- Working on demand and sales forecasting solutions to make customer experience better for products availability and optimize costs of stocking.
- Big data solutions for building Apache Beam pipelines

bol.com

Utrecht, NETHERLANDS

SOFTWARE ENGINEER

May. 2017 - Dec. 2017

- Working with JVM technologies in a team responsible for shop order intake.
- Based on Spring framework we create our services based on Micro-service design patterns and use the cutting-edge frameworks to deliver high-performance jobs in huge scale.

Freelance Data Scientist

Stockholm, SWEDEN

Dec. 2016 - Jun. 2017

- Working on different projects including retailers data to give insights to the customers.
- Analyzing huge amount of data for online shops to improve recommender systems performance.

Watty

Stockholm, SWEDEN

MACHINE LEARNING ENGINEER

May. 2016 - Dec. 2016

- I am working on Deep Learning methods which can be applied on Energy Disaggregation problems
- Solving challenging problems of NILM at Watty being one of the best disaggregation companies around the world.

Perzonalization

Istanbul, TURKEY

SOFTWARE ENGINEER & DATA SCIENTIST

Dec. 2015 - May. 2016

- Implementing and optimizing recommender systems on dataset of an online shopping website
- Analyzing different approaches on the performance of the recommender system including Deep Learning approaches

MizPiz Inc.

London, CANADA

MOBILE APPLICATION DEVELOPER (REMOTE)

Oct. 2014 - June. 2015

- As an iOS developer I developed MizPiz app for iOS whole application from the beginning to the end. MizPiz is designed to revolutionize how restaurant goes interact with each other and with restaurant owners in the effort to create a tightly connected community who all share one passion: food. With one app, you can save money, find new restaurants, and share your dining experiences with your friends to help the community grow. MizPiz will make dining worry free, enjoyable, and more affordable!

Mobven

Istanbul, TURKEY

MOBILE APPLICATION DEVELOPER

Aug. 2014 - Oct. 2014

- For a short period of time I had the chance to work in Mobven's great team and it's professional environment. I was working on an Android application named HesapAl.

Dade Pardaz Sahand

Tabriz, IRAN

MOBILE APPLICATION DEVELOPER

Jan. 2013 - Dec. 2013

- Developed an Android application for online bus ticket booking.

Nar-Co

Tabriz, IRAN

SOFTWARE DEVELOPER

Jan. 2012 - Dec. 2012

- Worked on several small projects including Web Design, Mobile Application Development, and Windows .NET application programming.

Tabriz University Robotic Group (TURG)

Tabriz, IRAN

SOFTWARE DEVELOPER

2009 - 2013

- Worked as a team member and also software developer head in University of Tabriz. Including several sections : Data Acquisition from UDP port, De-serializing data using google protobuf, Extended Kalman Filter for Noise Reduction, Graphical Visualization of Robots and Ball with OpenGL, Strategy Planner Module ,ERRT for path planning, Sending Out Commands using USB port to a RF-Module.

Interests

DEEP LEARNING

MACHINE LEARNING

DATA SCIENCE

SOFTWARE DESIGN

Education

Özyeğin University

Istanbul, TURKEY

M.SC. IN COMPUTER SCIENCE

2014 - 2016

- **Minor:** Deep Learning
- **CGPA:** 3.73/4

University of Tabriz

Tabriz, IRAN

B.S. IN ELECTRICAL AND ELECTRONICS ENGINEERING

2008 - 2013

- **Minor:** Control Engineering
- **Thesis:** Unscented Kalman Filter Adaptation in an obstacle-based environment on a noisy system for small-size soccer robots

Technical Skills

Programming Languages

PYTHON, JAVA, KOTLIN, SCALA, JAVASCRIPT, C++, C#, RUST

Data Science

STATISTICAL MODELING, REGRESSION ANALYSIS, DEEP GENERATIVE MODELS, TIME-SERIES ANALYSIS

Softwares

LINUX, MATLAB, ECLIPSE, MS VISUAL STUDIO, XCODE

Libraries and Frameworks

SPRING FRAMEWORK, HADOOP, APACHE KAFKA, SPARK, BEAM, PIG, TENSORFLOW, CUDA, QT, OPENCV, OPENGL, ,
CAFFE, TORCH

Database

NOSQL, MONGODB, HDFS, POSTGRESQL, ORACLE

Other

GOOGLE CLOUD DATA FLOW, AWS, AZURE, GIT, AGILE METHODS

Teaching Experience

Engineering Computation

Istanbul, TURKEY

OZYEGIN UNIVERSITY

Engineering Mathematics

Istanbul, TURKEY

OZYEGIN UNIVERSITY

MATLAB Programming for Engineering students

Tabriz, IRAN

UNIVERSITY OF TABRIZ

Teacher of educational committee of student council of EE department

Tabriz, IRAN

UNIVERSITY OF TABRIZ

Honors & Awards

2014-2016	FULL SCHOLARSHIP , Ozyegin University	Istanbul, TURKEY
2009-2011	Elected as a member of educational committee of student council of EE dept. , University of Tabriz	Tabriz, IRAN
2010	Ranked 5th with small-size soccer robot team in IranOpen competitions among 11 teams , University of Tabriz	Tabriz, IRAN
2009	Ranked 2nd in electrical national circuit design contest among participants of North-West IRAN , University of Tabriz	Tabriz, IRAN
2006	Admitted in the first round of Mathematics Olympiad among approximately 20000 students and placed 36th in the second round among 800 students nationwide , University of Tabriz	Tabriz, IRAN
2005	Admitted in khwarizmi young Festival and ranked 4th in state level , University of Tabriz	Tabriz, IRAN
2003	Accepted in National Organization for Development of Exceptional Talents (NODET) , University of Tabriz	Tabriz, IRAN

Adhoc Projects

Artificog Mahcine Learning Framework

ARTIFICOG IS A MACHINE LEARNING FRAMEWORK WITH FOCUS ON DEEP LEARNING.

Istanbul, Turkey

2015

Software-Defined Networking (SDN) in Ad hoc Networks of iOS devices (SDNAN)

AN APPLICATION THAT IS IMPLEMENTED OVER APPLE MULTIPLEER CONNECTIVITY FRAMEWORK RUNNING SDN TO INCREASE FLEXIBILITY AND AGILITY FOR USER SPACE DEVELOPMENT APPLICATIONS

Istanbul, Turkey

2014

Intelligent Nutrition Therapy

A WINDOWS APPLICATION WRITTEN IN C# AND PUBLISHED IN IJRQEH IN COLLABORATION WITH ALI FAHMI. THIS SOFTWARE IS A DECISION SUPPORT SYSTEM TO ANALYZE DAILY ENERGY OF A PERSON AND IT IS ABLE TO SUGGEST THE FOODS THE PERSON COULD EAT THAT IS BEST FOR HIS/HER HEALTH.

Tabriz, IRAN

2014

Cable Calculations Software

CALCULATING MAXIMUM ALLOWABLE CURRENT THAT IS USED FOR A CABLE IN A SPECIFIC CONDITION OF ENVIRONMENT WRITTEN IN C# LANGUAGE

University of Tabriz

2013

Data Acquisition System and Online Monitoring Software for 13 channel measuring a pipe temperature.

A CIRCUIT WITH AVR MICROCONTROLLER DESIGNED FOR ANALOG DATA ACQUISITION WITH A SOFTWARE WRITTEN IN C# LANGUAGE

University of Tabriz

2013

Online Restaurants Ordering System

A SYSTEM DEVELOPED ON SEVERAL PLATFORMS (IOS, ANDROID, WINDOWS) FOR ONLINE ORDERING OF RESTAURANTS

University of Tabriz

2012

GENERAL SOFTWARE OF SMALL-SIZE SOCCER ROBOTS TEAM

INCLUDING SEVERAL SECTIONS : DATA ACQUISITION FROM UDP PORT, DE-SERIALIZING DATA USING GOOGLE PROTOBUF, EXTENDED KALMAN FILTER FOR NOISE REDUCTION, GRAPHICAL VISUALIZATION OF ROBOTS AND BALL WITH OPENGL, STRATEGY PLANNER MODULE, ERRT FOR PATH PLANNING, SENDING OUT COMMANDS USING USB PORT TO A RF-MODULE.

University of Tabriz

2009 - 2012

Publications

JOURNALS

An Intelligent Decision Support System (IDSS) for nutrition therapy

INTERNATIONAL JOURNAL OF RELIABLE AND QUALITY E-HEALTHCARE (IJRQEH)

University of Tabriz

Ali Fahmi, Alireza Ostad Rahimi