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Murat Çelik

Artificial Intelligence Engineer

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I am a 4th year Computer Engineering student at Hacettepe University. I am interested in artificial intelligence. I develop myself in machine learning, deep learning, data structures and algorithms. I read books, watch videos and follow articles about artificial intelligence. I have knowledge about web programming, mobile application development and blockchain. I am trying to improve my communication skills by taking part in various communities. I like reading novels, watching movies and playing sports.

Education

Computer Science, *Hacettepe University* — June 2023
Web Design and Coding, *Anadolu University* — May 2021
İzmir Kız High School — 2014 — 2018

Skills

Quantitative Research	Machine Learninig, Deep Learning, NLP, Computer Vision, Big Data, Mathematical optimization
Tools and Languages	Python, Java, C/C++, Git, LaTeX, MarkDown, PostgreSQL, MongoDB, Cypher, SQL
Artificial Intelligence	Pytorch, Tensorflow, Scikit Learn, Matplotlib
Web Development	HTML, CSS, JavaScript, Asp.NET MVC, Flask, Django, Node.js, Streamlit
Others	Microsoft Azure, Office Programs

Technical Experience

R&D Engineer - Data Scientist — **October 2022 — Present**
YapıKredi Technology

- My responsibility proceeds with tasks such as modeling on banking data, analyzing scenarios, labeling and literature review. The steps of merging, preprocessing, aggregation, encoding, training and evaluation are followed over the different datasets at hand. Experiences are gained in PL/SQL, Python, working on a remote computer.

Machine Learning Developer - Intern — **June 2022 — July 2022**
Doğuş Technology

- I took part in the computer vision project as the main in the ML/AI team. I worked on data preprocessing, model design, training and testing phases and integration tasks of the project as a web project. I gained experience of getting to know the corporate culture and working with the Scrum model. In addition, I took part in a web project phase where web and mobile teams were involved.

Research Student — **March 2021 — June 2022**
Hacettepe University — *Computer Science Department, Ankara*

- I was working on an article with one of my department professors, Lale Özkahya. In this process, I gained skills such as literature review, research, note-taking, analysis and comparison. In our project, we use Machine Learning Algorithms on Graph data. We searched for solutions to various classification problems using different Graph features and algorithms.

Backend Developer - Intern — **August 2021 — September 2021**
PranaGEO — *Remote Work*

- I did my internship at PranaGEO company. PranaGEO is a young Research and Development company and provides solutions for research and software development for data science projects. The main reason I chose this company is my interest in data science, my desire to design the background of a project, and to be able to work with the Graph database. I experienced a program where I experienced new technologies and was able to draw a roadmap for the future.

Publications

Classification of Complex Networks for Low-Rank Representations — **March 2022**
with Lale Özkahya, Ali Baran Taşdemir - SIU2022 — *Hacettepe Computer Science Department, Ankara*

- Representation of various relationships, activities, structures is done through complex networks. These representations are provided by various low-dimensional representations. In this project, we worked with my teacher Lale Özkahya, Associate Professor in Computer Engineering, and graduate student Ali Baran Taşdemir to consider low-order representation as a classification problem and apply it to networks. Our article has been accepted by the SIU2022 convention.

Volunteer Experience

Alumni - Inzva Hackerspace — 2019 — Present
Student Member - IEEE Hacettepe University Student Branch — 2018 — 2022
Student Member - ACM Hacettepe University Student Branch — 2018 — 2022

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Program

Imaginer - FY23 **December 2022 — Present**
Microsoft Turkey

- The IMAGINE Program initiated by Microsoft Turkey covers career meetings, technical trainings, community conversations and meetings with senior managers for 6 months. I participated in this program along with 74 students who are interested in cloud technologies such as Artificial Intelligence, Data Science, IoT, DevOps Processes, Business Analytics. Within the scope of the program, a project idea on the theme of sustainability should be produced and developed.

Google Machine Learning Bootcamp Turkey **July 2022 — December 2022**
Google Developers Inzva *Remote*

- The Google Developers Machine Learning Training Program aims to provide training to those who are interested in machine learning and to bring them together with IT companies that need such a workforce in the country. This program, which will be carried out in partnership with the Inzva community, aims not only to teach machine learning theory to the participants in 4.5 months, but also to bring them to a level that can solve engineering problems in the field. As part of this program, I took Google's Tensorflow exam and was awarded the title of Tensorflow Developer.

Fully Featured Web Development Program **September 2022 — October 2022**
MEXT *Remote*

- A comprehensive program in which a group of 25 people is trained by Boğaziçi University professors for 1 month. This program includes a comprehensive web programming training based on C language. I had the opportunity to improve my knowledge on database creation, object-oriented programming, design thinking.

Applied AI Study Group 6 **January 2022 — March 2022**
Inzva *Remote, Beykoz Kundura, İstanbul*

- Applied AI Study Group is a 6-week training program with experts in various AI fields such as natural language processing, computer vision, anomaly detection, predictive analytics. It is the second phase of the Deep Learning Study Program.

Deep Learning Study Group 7 **October 2021 — December 2021**
Inzva *Remote, Beykoz Kundura, İstanbul*

- The Deep Learning Program is 12-week advanced deep learning study in the field of AI. In the program, we received training with different guides from the sector every week. With this program, I had the opportunity to make new friends, to learn about the paths they followed and their visions by listening to the experienced people in the community.

Unlimited Talent Program **November 2020**
Turkcell *Remote*

- In the Unlimited Talent Program, I spent a week with Turkcell executives to experience working at Turkcell and gaining career experience. With the help of mentor, we made a presentation with our Turkcell business ideas with my 3 teammates.

Advanced Algorithm Program **April 2021 — June 2021**
Inzva *Remote, Beykoz Kundura, İstanbul*

- Advanced Algorithm Program is a 10-week program which we train with challenging questions about algorithms.

Certificates

Microsoft Certified: Azure AI Fundamentals - by Microsoft	2023
Microsoft Certified: Azure Data Fundamentals - by Microsoft	2023
TensorFlow Developer Certificate - by Google	2022
IBM Data Science Professional Certificate (10 course Specialization) - by IBM Skills Network	2022
DeepLearning.AI TensorFlow Developer (4 course Specialization) - by DeepLearning.AI	2022
Deep Learning with PyTorch : Generative Adversarial Network - by Coursera Project Network	2022
Deep Learning with PyTorch : Image Segmentation - by Coursera Project Network	2022
Deep Learning (5 course Specialization) - by DeepLearning.AI	2021
HSBC StepUp Banking Step by Step - by HSBC	2021
Data Science for Everyone - by DataCamp	2021
Mathematics for Machine Learning Specialization - by Imperial College London	2021
Turkcell Academy Future Preparation Program - by Turkcell	2020
(42 Hours) Complete Java Developer Course From Scratch - by Mustafa Murat Coşkun	2020
Creating Nodes and Relationships in Neo4j 4.x - by Neo4j	2021
Python for Everybody Specialization - by University of Michigan	2022