



# Ali Yesilkanat

(+90)5078590386 ◇ aliyesilkanat@gmail.com

Istanbul, Turkey

 [github.com/aliyesilkanat](https://github.com/aliyesilkanat)

 [linkedin.com/in/aliyesilkanat](https://www.linkedin.com/in/aliyesilkanat)

## SUMMARY

---

Participating in research and development cycles in machine learning-based real-world applications is my main interest. I graduated from my master's degree with the expertise of deep learning, speech processing concepts. I also developed a credit card fraud detection system with machine learning as an R&D Engineer in Applied AI and R&D Department, Yapi Kredi Bank. Therefore, I have excellent knowledge and hands-on experience in machine learning, data science, and software development. My ultimate aim is to advance in my career abroad by following and employing the newest research and technologies.

## TOPICS INTERESTED

---

Machine Learning, Deep Learning, Speech Processing, Computer Vision, Software Engineering

## EDUCATION

---

**Bogazici University, Istanbul**

*2017 - 2020*

Master of Science, Department of Computer Engineering

**GPA:** 3.77/4.00

**Thesis:** Adversarial One-Shot Voice Conversion with Disentangled Representations

### Studied Concepts

- Machine Learning, Deep Learning, Deep Generative Models (VAE, GANs)
- Speech Processing, Computer Vision, Natural Language Processing
- Probabilistic Methods, Monte Carlo Methods

### Programming Experiences

- Python, Pytorch, Keras, Numpy, Pandas, Apex

**Ege University, Izmir**

*2012 - 2016*

Bachelor of Science, Department of Computer Engineering

**GPA:** 3.71/4.00

**Thesis:** Sentiment Analysis of Tweets Using Machine Learning with Akka Actors

## WORK EXPERIENCE

---

**Yapi Kredi Technology, Istanbul**

*March 2018 - Present*

*Research and Development Engineer Specialist*

Real-Time Credit Card Fraud Detection using Machine Learning

- Real-world, massive, and imbalanced credit card transactions
- ETL, Feature Engineering and gradient boosting tree based modelling
- Integration to the bank for real-time flowing transactions
- Automatic retraining structure for prevention of the concept drift
- Used technologies: Python, Java, Spring Boot, Flask, Docker, Redis

**OBSS, Istanbul**

*August 2016 - April 2017*

*Associate Consultant - Software Developer*

Development of Financial and Banking Applications in Yapi Kredi

- Designing web services for core banking applications
- Oracle RDBMS, PLSQL
- Frontend-Backend development using Java

## **PUBLICATIONS**

---

- **A Yesilkanat**, H Kaya, S. F. Gurgen, "Adversarial One-Shot Voice Conversion with Disentangled Representations", *ICPR* 2020. (Under Review)
- **A Yesilkanat**, B. Bayram, B. Koroglu, S. Arslan, "An Adaptive Approach on Credit Card Fraud Detection using Transaction Aggregation and Word Embeddings", *AIAI* 2020.
- H. Kaya, D. Fedotov, **A. Yesilkanat**, O. Verkholyak, Y. Zhang, A. Karpov, LSTM Based Cross-corpus and Cross-task Acoustic Emotion Recognition, *Interspeech* 2018.

## **TECHNICAL STRENGTHS**

---

### **Machine Learning Skills**

Pytorch, Keras, Tensorflow, Apex, Numpy, Scikit-Learn, Pandas, Jupyter Notebook

### **Software Development Skills:**

Python, Java EE, Spring, C, C#, Javascript, PL/SQL, Redis, MongoDB, Git, Bamboo, Jenkins, REST, SOAP, Socket Programming, Concurrent Programming, Test Oriented Programming, Event Driven Programming, Integration Testing, Linux, Docker

## **PROFESSIONAL ACTIVITIES**

---

Reviewer at International Association for Pattern Recognition (ICPR), 2020.

## **EXTRA-CIRRICULAR**

---

Workshop For Disabled Children (Assistant)

Youth Leadership and Entrepreneurship Program (U.S. Department of State)

Young Innovation and Entrepreneurship Project II (U.S. Embassy, Ankara and T.E.D.)

## **CERTIFICATES**

---

Neural Networks and Deep Learning (Coursera deeplearning.ai, 2018)

Sequence Models (Coursera deeplearning.ai, 2018)

Data Science, Deep Learning, & Machine Learning with Python (Udemy, 2018)

## **LANGUAGES**

---

Turkish (Native), English (Advance), German (Basic)