# Milos Milunovic

# Computer Science Student & Al Enthusiast

## Work experience

Teaching assistant

01.09.2017 - present

## Union University, Faculty of Computing, Belgrade

Intelligent Systems - second-year undergraduate studies

Introduction to Programming and Object Oriented Programming - first-year undergraduate studies

Data Analyst Consultant

01.08.2018 - 1.03.2019

#### Telekom Srbija

Design and develop pipelines to analyze a large amount of telecommunications data and logs using ELK stack.

Configuring Logstash, FileBeats, MetricsBeats and other parts of ELK stack.

Configure and analyze machine learning jobs.

Creating indices and analytics on elasticsearch data, creating visualizations, Dashboards in Kibana.

## **Education**

Bachelor in Computer Science

2016 - present

Union University, Faculty of Computing, Belgrade

## Online courses

#### Advanced Machine Learning Specialization - HSE Coursera

- Introduction to Deep Learning
- How to Win a Data Science Competition
- Bayesian Methods for Machine Learning
- Practical Reinforcement Learning
- Deep Learning in Computer Vision
- Natural Language Processing

## **Deep Learning Specialization - Andrew Ng Coursera**

- Introduction to Deep Learning
- Neural Networks and Deep Learning
- $\bullet$  Improving Deep Neural Networks: Hyperparameter tuning, Regularization, and Optimization
- Structuring Machine Learning Projects

## **Self Driving Engineer - Udacity Nanodegree**

- Computer Vision, Sensor Fusion, Localization
- Currently enrolled

### **Elastic Machine Learning for Cybersecurity - Elasticsearch**

## **Projects**

- Behavioral Cloning for Self-Driving Car Neural network that learns to drive a car in a simulator from pixel data of previous driving sessions. - in progress
- Raflow Simple machine learning library written from scratch using only numpy. I managed to solve
  multiple Kaggle problems using only my library. in progress
- Traffic Signs Classifier LeNet5 and VGG16 for traffic sign classification. Preprocessing images with standard computer vision methods and CLAHE.
- IMDB Sentiment Analysis Sentiment analysis of IMDB movie reviews using Multinomial Naive Bayes Classifier
- Shortest path among polygons Find the shortest path using visibility graph and Dijkstra's algorithm in O(n^2log n) time.

## Competitions

## FON Hackaton 2018 (1st place)

Developed cloud based system for analysis and visualization of tellecommunication data. Project also included real time anomaly detection system using unsupervised machine learning.

#### FON Hackathon 2019(2nd place)

Developed a chatbot that provides users with map and information about distribution of allergens in air. We used machine learning to predict amout of pollen based on previous data and additional factors like wind direction and air humidity.

#### eGovernment Hackaton 2018 (3rd place)

Developed web app with simple and minimalistic UI design and smart search engine which simplified usage of eGovernment portal.

#### MatHackathon 2018 (4th place)

Developed simple web app that uses machine learning to classify tourist attractions and recommend them to user according to their needs.

# Serbian national informatics competition 2015 (participation)

## **Technical Skills**

Python

Tensorflow, openCV, Keras, SciPy

Machine Learning

Traditional ML methods, CNN's, RNN's, Feature engineering

**ELK Stack** 

Elasticsearch, Kibana, Logstash, Beats

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Object oriented concepts

Operating Systems

Low level C, Intel, and AT&T assembly

## Extracurricular activities

#### Petnica Science Center

- Computer Science 2014/2015
- Applied Physics and Electronics 2013

### Lazy Brain - Digital Intelligence

- Board member of LazyBrain
- Plan and organize various events for IT students and professionals