Milos Milunovic

Computer Science Student & AI Enthusiast

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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
- 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 $O(n^2\log n)$ 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

Java
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