Abduragim Shtanchaev

in   ✉ name.surname@gmail.com

EDUCATION

Skoltech — Moscow, RU
M.Sc. in Information Systems and Technology, GPA: 3.92/4.00 — May 2020

University of Turkish Aeronautical Association UTAA — Ankara, Turkey
B.Sc. in Mechatronics Engineering, GPA: 3.35/4.00 — July 2018

WORK & RESEARCH EXPERIENCE

NeurodataLab LLC — Moscow, RU
Data Scientist — April 2020 - Present

- **Ad Power**: Built predictive models for ad recall predictions based on emotional state of respondents, media coverage of ads and information about ads. Currently, working on converting the models for production
- **Data collection and prepossessing pipeline**: Created data prepossessing pipeline for ad recall prediction models from a scratch
- **Paper**: Contributed to scientific paper on ad recall prediction

German Orbital Systems — Berlin, GE
Research Intern — Summer 2019

- **ADCS**: Developed test bed for Attitude Determination and Control System for small cubesats satellites. The control system enables small satellites to control attitude and title using only magnetorquer. For more details

Skoltech — Moscow, RU
A list of valuable projects accomplished as a student — 2018 - 2020

- **Optimizing GANs using non-classical optimizers**: GANs are know as "hart to train" for various stability reasons. We used non-calassical optimizers in deep learning to remedy the problem. Implemented and tested on GANs using Pytorch following optimizers: Gradient Sliding, Ellipsoid and Quick prop. Code and presentation
- **Camera Trajectory Estimation**: Implemented a model for estimating trajectory of a framing camera using RGB-D images and classical computer vision techniques. Wrote a blog on medium about the project. Source code
- **Recybot**: A   project in collaboration with Department of Mechanical Engineering at MIT under Prof. Kamal Youcef-Toumi and Skoltech Robotics lab. Built screw detection model for automated e-waste disassembly - recybot. More about project here

OTHER PROJECTS

Automated Forest Inventory Using Satellite Images
M.Sc. Thesis advised by Prof. Anton Ivanov

- **Python**: Developed a semi-superviced approach for tree crown classification in boreal forest using World-View2 satellite imagery with a low spacial resolution - 0.5m/pix. Accepted abstract at IAF conference. The full thesis and code

Pipeline Inspection Robot - PIG
B.Sc. Thesis advised by Prof. Habib Ghanbarpourasl

- **C++**: Odometery calculation in wheel slippage cases. Developed and tested an algorithm for a robot odometry using camera assistance in the cases when wheel slippage is present.

ACHIEVEMENTS

2020	**Graduated with High Honors** from Skoltech	Moscow, RU
2018	**Prestigious Full Scholarship** at Skoltech for M.Sc, selected from 3k+ (<1 %)	
	Graduated with Honors from UTAA	Ankara, TU
2013	**Full Scholarship** for B.Sc. at UTAA	
	Graduated with High Honors from Liceum	Makhachkala, RU
2011	**Ranked 4th in Russian Regional History Olympiad**	

Skills & Interest

>5000 lines	**Python** ∘ Pytorch
>1000 lines	Java ∘ **C++** ∘ bash ∘ git
familiar	Tensorflow ∘**Keras** ∘ mxnet ∘ HTML ∘ C ∘ Jekyll