

Abduragim Shtanchaev



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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 - September 2020
 - **Ad Power:** Built predictive models for ad recall predictions based on the emotional state of respondents, media coverage of ads, and information about ads.
 - **Data collection and preprocessing pipeline:** Created data preprocessing pipeline for ad recall prediction models from a scratch
 - **Paper:** Contributed to a [paper](#) on ad recall prediction
- **German Orbital Systems** Berlin, GE
Research Intern Summer 2019
 - **ADCS:** Developed testbed for Attitude Determination and Control System for small cubesats satellites. The control system enables small satellites to control attitude and tilt using only magnetorquer. For [more details](#)
- **Skoltech** Moscow, RU
A list of valuable projects accomplished as a student 2018 - 2020
 - **Iris Flower Classifier Deployment:** Created a web service for Iris Flower classifier using Flask and Docker. Deployed on AWS. [Code](#)
 - **Optimizing GANs using non-classical optimizers:** GANs are known as "difficult to train" for various stability reasons. We used non-classical 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 the 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 the 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-supervised approach for tree crown classification in boreal forest using World-View2 satellite imagery with a low spatial resolution - 0.5m/pix. Presented at IAC conference. The full [thesis](#) and [code](#)
- **Pipeline Inspection Robot - PIG**
B.Sc. Thesis advised by Prof. Habib Ghanbarpourasl
 - **C++:** Odometry 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	Competed SMILES , selected 10% applicants. Certificate	Moscow, RU
	Graduated with High Honors from Skoltech	
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
Normal Java ◦ C++ ◦ bash ◦ git ◦ SQL
Familiar Tensorflow ◦ Keras ◦ mxnet ◦ HTML ◦ C ◦ Jekyll ◦ Docker ◦ Flask