

# Abduragim Shtanchaev



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## EDUCATION

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- **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

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- **NeurodataLab LLC** Moscow, RU  
*Data Scientist*  
April 2020 - Present
  - **Ad Power:** Built predictive models for ad recall predictions based on the emotional state of respondents, media coverage of ads, and information about ads. Currently, working on converting the models for production.
  - **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
  - **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

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- **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. Accepted abstract at IAF 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

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2020	Competed <b>SMILES</b> , selected 10% applicants. <a href="#">Certificate</a>	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 4 <sup>th</sup> in Russian Regional History Olympiad	

SKILLS & INTEREST

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