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 - 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 prepossessing pipeline**: Created data prepossessing 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
- **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. 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	**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
>1000 lines	Java ∘ **C++** ∘ bash ∘ git
familiar	Tensorflow ∘**Keras** ∘ mxnet ∘ HTML ∘ C ∘ Jekyll ∘ SQL ∘ Docker ∘ Flask