

# Yaroslav Burdin

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## SKILLS

**Machine Learning:** computer vision, Keras, TensorFlow, pandas, Tableau, SQL

**Languages:** Python, Java, C++

**Development:** Agile, Scrum, git

## CERTIFICATES

- IBM Advanced Machine Learning and Signal Processing
- Fundamental Neuroscience for Neuroimaging
- Principles of fMRI 1 • Principles of fMRI 2
- Data Visualization with Tableau

## PROJECTS

### BINARY IMAGE CLASSIFIER

- Built a convolutional neural network model using Python TensorFlow to classify brain tumors from MRI scans.
- Explored and preprocessed the data.
- Used NASNetLarge as a pretrained base model.

### ON-BOARD SYSTEM FOR DRIVING STYLE ASSESSMENT

- Designed and implemented vehicle on-board system to collect accelerometer data.
- Preprocessed accelerometer data using Python Tensorflow.
- Used SparkML k-Means clustering algorithm to classify emergency situations from accelerometer data.

## EDUCATION

**UNIVERSITY OF MASSACHUSETTS AMHERST**  
**BS IN COMPUTER SYSTEMS ENGINEERING**  
Minor: Chinese

## COURSEWORK

Computer Vision, Deep Learning  
Signals and Systems, Digital Signal Processing  
Machine Learning, Probability and Statistics  
Data Structures and Algorithms  
Advanced Programming, Advanced SQL

## EXPERIENCE

### RUSSIAN SCHOOL OF MATHEMATICS

**MATH TEACHER | SITE OPERATIONS MANAGER**

Feb 2021 - Current | New York, NY

- 2nd - 10th grade math teacher
- Providing operational and technical application and system support to the RSM customers and business functions

### FREELANCE

**DATA ENGINEER**

Mar 2019 - Nov 2019 | New York, NY

- Built a data storage for golf course information.
- Used a web scraper to collect the data. Stored the data using MySQL.
- Built support for data export and used Tableau to present the results to the customer.

### S&P GLOBAL PLATTS

**CONTRACTOR, INFRASTRUCTURE AND SECURITY DEPARTMENT**

Feb 2018 - Feb 2019 | New York, NY

- Built a data pipeline to power a prediction model using Python.
- Developed a machine learning model that predicted cargo type carried on a vessel. Resulting model was comparable to a commercial solution from Datarobot.
- Used NumPy, Pandas, SciKit-Learn, and Plotly Python libraries. Used Gradient boosted decision trees as the prediction model.
- Supported migration of 600+ servers from on-prem environment to AWS by establishing server decommissioning process.
- Provided analytical reporting on 900+ servers and 100+ applications in Service Now CMDB and Troux configuration tool to assure GDPR compliance of all company's websites.
- Developed technical documentation and operational runbooks for integration and maintenance of newly acquired Platts platforms/applications.

### CONTRACTOR, PROJECT MANAGEMENT OFFICE

May 2017 - Feb 2018 | New York, NY

- Supported agile transformation by establishing new processes of project approval and software development.
- Conducted training on new reporting platforms and project prioritization processes for project managers and PMO coordinators.
- Worked closely with offshore Serena support team in building custom reports on resource allocation, project and team health, and budget tracking to improve project transparency.
- Managed project and resource inventory data in VersionOne, leading to yearly decrease in license expenditure of \$67,000.
- Was involved in resource management framework implementation in HP-PPM reporting platform including data collection, analysis, resource usage and allocation reporting.
- Created a resource setup guide for support teams, resource pool managers and project managers with further framework support.