

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 2020 | 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.