Farruh **Kushnazarov**

SENIOR DATA SCIENTIST

Shanghai, China

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Data scientist with 4+ years of experience executing data-driven solutions to increase efficiency, accuracy. I have a deep driven passion for software, database, and data science.

Experience

Big Data & IT Manager, Data Scientist
Shanghai, China

TUTORABC - ITUTORGROUP
September 2016 –> Present

- LANGUAGES USED — Python, R, RMarkdown, SQL, Spark, Hive
- Conduct classification analyses of the customer life cycle stage to increase overall turnover.
- Algorithmic optimizes ongoing ML/DL models and check the performance of implemented models.
- Established a Machine Learning model refund customers and update the refund model. Decreased refund overall refund rate to 27%
- Implemented and retrained Mozilla DeepSpeech library for Automatic Speech Recognition.
- Created and tested the Speech Accent Classification system for native and non-native speakers, with recall 99%.

Data Scientist
Online

PERIPLUS AG (PART-TIME)
May 2016 –> September 2016

- LANGUAGES USED — Python, R, RMarkdown, SQL
- Establish and manage the data scientist team. Construct computer vision projects. Bring to production AI/ML/DL projects.
- Created data scientist team from scratch, in three months. Trained candidates with a piece of good basic knowledge
- Created a container number recognition system using object detection and character recognition models. Using an internal tool as part of a container tracking system
- Internal face recognition system for customers

Automatic Driving Prospective Technology Engineer
Shanghai, China

HAIMA AUTOMATIC INVESTMENT GROUP CO. LTD, R&D CENTER
May 2016 –> September 2016

- LANGUAGES USED — C/C++, Python, Bash
- CANBus connect lidar, radar, decrease noises in raw data from them.
- Model working logic two computers, one is the main computer, second is a backup computer
- Optimize joint work and logic compatibility of equipment.

Software Engineer, Data Analyst
St Petersburg, Russia

DOMUS SAPIENS
January 2011 –> December 2014

- LANGUAGES USED — C/C++, Assembler, Bash
- I worked alone on more than 20 large and small projects of intelligent systems, one of the most famous and complicated cases is: "smart system development of Moscow city".
- The project "Moscow city" is composed of five high buildings with styles, different functions of the office buildings and hotels for each building, each floor's requirements were not the same, equivalent to a small smart city system. We successfully finished the project, and for this project, Domus Sapiens got several rewards.
- Implemented the created and got patend model to improve the quality of data transfer in wireless network;

Software Engineer
Tashkent, Uzbekistan

PRODVD (PART-TIME)
October 2010 –> March 2012

- LANGUAGES USED — C/C++
- ProDVD is a Korean/USA joint venture that was located in Tashkent. Mainly provides a service development and production program for mobile phones and TV, and other electronic products.
- Developed the mobile phone program of smart card king, which Android and iOS systems could use, making it convenient for business people to organize and store business cards.
- Developed the audio encoding/decoding part of the Blu Ray player, and I also invented the word recognition software used in the library based on the iOS system.

Education

Emperor Alexander I St.Petersburg State Transport University
St Petersburg, Russia

MATHEMATICAL MODELING, NUMERICAL METHODS AND COMPUTER PROGRAMS
2012 –> 2016

- Doctor of Philosophy (PhD)
- Research field: Develop data transmission methods for evaluating the real speed of data link layer protocols, which aimed at improving hardware and software components

Data Science Skills

Communication

PRESENTATIONS (TECHNICAL AND NON-TECHNICAL), DASHBOARD DESIGN, DATA ANALYSIS REPORTS, SCIENTIFIC PUBLICATIONS, DATA VISUALIZATION

Programming/Markup Languages

BASH, C/C++, PYTHON, R, SQL, MATLAB, CSS, HTML, LaTeX, MARKDOWN, RMARKDOWN

Software Development

VERSION CONTROL, AUTOMATED TESTING, CONTINUOUS INTEGRATION

Numerical Methods

OPTIMIZATION (STOCHASTIC, GENETIC, MULTI-START), NUMERICAL SOLUTION OF DIFFERENTIAL EQUATIONS

Statistics

MACHINE LEARNING, DATA ANALYSIS, GENERALIZED LINEAR REGRESSION, CLUSTER ANALYSIS, FACTOR ANALYSIS, PRINCIPAL COMPONENTS ANALYSIS (PCA), CROSS VALIDATION, GENERALIZED ADDITIVE MODELS, DATA ANALYTICS, MONTE CARLO SIMULATION

Text Editors

JUPYTER-NOTEBOOK, PYTORCH, RSTUDIO, SQL SERVER MANAGEMENT STUDIO, VIM, VISUAL STUDIO

Selected Publications

1. Kushnazarov, F (2019). Data Stream Controlling in Communication Channels with Noise. *2019 IEEE 4th International Conference on Cloud Computing and Big Data Analysis (ICCCBDA)*, 534–538.
2. Kushnazarov, F (Apr. 2018). Throughput of communication protocols for distributed systems under transferring a group of frames. *2018 IEEE 3rd International Conference on Cloud Computing and Big Data Analysis (ICCCBDA)*, 424–429.
3. Kushnazarov, F (2017). Analysis of perfomance of algorithms for scoring system in organization of customer profiles. *2017 IEEE 2nd International Conference on Big Data Analysis (ICBDA)*, 281–285.
4. Yakovlev, V and F Kushnazarov (Oct. 2017). *Organization of work with cloud services*. 1st ed. 190031, Saint Petersburg, 9 Moskovsky pr.: FGBOU VO PGUPS, p. 43.
5. Kushnazarov, F and V Yakovlev (Oct. 2015). "The Performance Evaluation of Protocols of Data Link Layer in the ISO/OSI Model". Patent RU 2015619739 (RU). `https://patentinform.ru/programs/reg-2015619739.html`.

Projects

Speech Accent Detection   *https://github.com/*

EVERYONE WHO SPEAKS A LANGUAGE, SPEAKS IT WITH AN ACCENT. THIS PROJECT DEFINE ACCENT FOR ENGLISH LANGUAGE SPEAKERS

2020

• Author and Maintainer

Certifications

2017	Big Data 101	*Big Data University*
2013	Certificate of knowledge of technology AMX I - II level	*Smart City and IoT*
2013	Certificate of knowledge of ABB technology I-III	*Smart City and IoT*
2013	Certificate knowledge of technology Crestron I - II level	*Smart City and IoT*
2012	Data Science - effective use of data	*EMC*
2012	ISM - administration of information and data storage	*EMC*
2007	Certificate of passing the course Fundamentals of IBM z Series	*Smart City and IoT*