
TSVIK MIKHAIL

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01.07.1994

Education

Saint-Petersburg National Research University of Information Technologies, Mechanics and Optics (ITMO University)

Applied Mathematics and Computer Science

Bachelor, 2012-2016

Work experience

- Mail.Ru Group (Odnoklassniki), ok.ru 2015.07 - 2016.02 (7 months)
Data Scientist Intern
 - Conducted the research of factors affecting the conversion of users during their first session on the social network using the methods of big data, data mining, machine learning and statistical analysis.
 - On the base of research suggested the innovations relating to interface of the social network and its functionality in order to increase the conversion of users. As a result some of them are using for now, there is also a factual increase of core indicators.
 - Have been involved into an identifying cause-and-effect relationships, correlations and complex interconnections in user behavior.
 - Used technologies: Java, R, SQL, Spark, Scala, Hadoop.
- EMC Corporation, emc.com 2015.01 - 2015.04 (4 months)
Intern Developer
 - In cooperation with the engineer has developed a compression algorithm for a certain class of data which is based on deduplication and methods of data mining.
 - Implemented the model of the algorithm described above and the server data structure for this algorithm on the Java.

Professional skills and other experience

- Core competencies:
Java, R, Data Mining, Machine Learning, Big Data, Data Science, Analytics, Research, Statistical Analysis.
 - Minor competencies:
Spark, Scala, SQL, Hadoop, Git.
 - Certificate High Quality Award 15% from Changellenge Cup Technical 2015, case from SAP company. Was a team leader of 4 people.
 - Certificate with honors (100%) course Data Analysis Using R (Bioinformatics Institute, Stepic).
 - English — Pre-Intermediate (reading technical literature).
 - OOP principles, design patterns (Gang of Four), SOLID principles.
 - I have developed a java-application which works with VK API.
 - I have coded my implementations of many algorithms and data structures.
 - I have coded several applications on Swing with using third-party libraries (Guava, JSON, Apache, SAX).
 - Experience in coding unit tests for algorithms and data structures (JUnit).
 - Most of the code is available on GitHub: github.com/mtsvik.
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Core Educational Subjects

- Java
- Object-oriented programming
- Algorithms and data structures courses
- Data Bases
- Probability Theory
- Mathematical Statistics
- Discrete mathematics
- Linear algebra
- Mathematical analysis.

IT interests

- Data Mining, Machine Learning:
 - I have coded my implementations of some algorithms, such as clustering and decision trees.
 - Knowledge and application of the random forest, logistic and linear regression, boosting models.
 - Have some knowledge of recommendation systems (SVD, user/item based).
 - Literature:
Segaran — «Programming Collective Intelligence»,
Marmanis — «Algorithms of the Intelligent Web»,
Cormen — «Introduction to Algorithms».
 - UX:
Analysis and design of the user interfaces and usability, I have some experience in this area (User behavior analytics at the social network, web development).
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