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Telecommunication

Development of a digital control center for real-time feedback and prognosis

For a globally operating, highly profitable telecommunication corporation, comSysto is developing a software product that generates decisive KPIs for analysts. Data are collected from various sources and prepared for decision-making processes.

Requirements

- Fast evaluation of new ideas and data sources
- Generation of important information for web analysts
- Creation of relevant KPIs for various business units
- Development of dashboards for TV screens at several locations
- Development of a desktop and a mobile application

Technologies

- Infrastructure: AWS (EC2, Elastic Beanstalk, EMR), Docker, Ansible
- Data Engineering: MongoDB, Spark, EMR
- Data Science: R, Spark
- Web: AngularJS, D3, SASS, Bootstrap, NodeJS, ExpressJS, REST, OAuth2
- Test automation: Jenkins
- Continuous Delivery: Docker, Ansible, Jenkins

Procedures and Methods

- Kanban
- Rapid prototyping
- Fast minimum-viable-product iterations
- Xtreme programming

Advanced Analytics/Data Science

- Construction of features and impact evaluation in machine learning models
- Data preparation and imputation
- Time-series analysis for smart KPI monitoring
- Creation of a warning system and identification of influence factors
- Prediction of customer behaviour using non-linear regression
- Monitoring of the performance of machine learning models