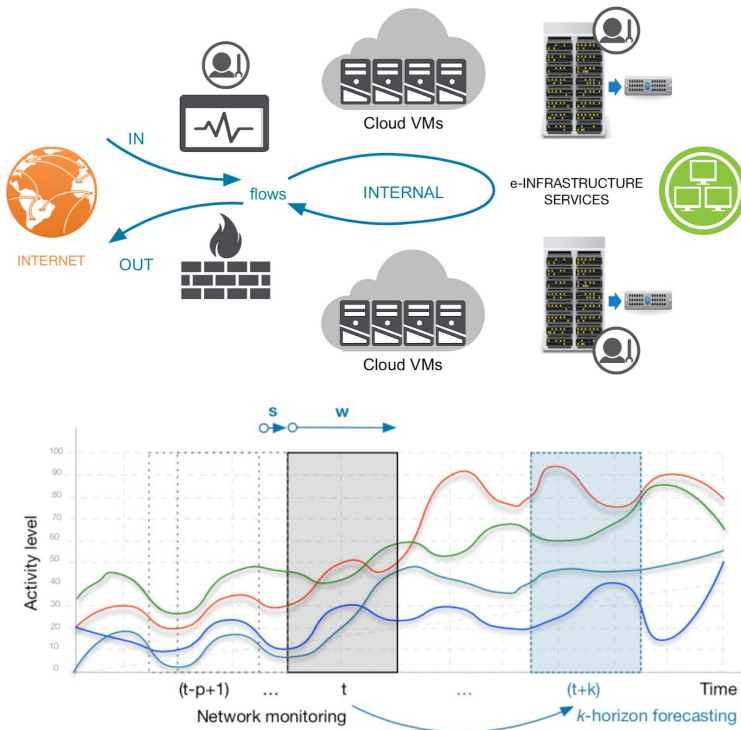


PROACTIVE FORECASTING

Time-series forecasting, proactive monitoring, abnormal state detection



Time-series forecasting, abnormal state detection

Intelligent module for network monitoring and security protection

Enhancing functionality of surveillance Intrusion Detection System

Challenge dynamic and evolving network environments

Machine learning application with deep learning modeling

EU H2020 DEEP-HybridDataCloud

Use Case: Massive Online DataStream Proactive network monitoring and security protection for computing infrastructure

Team

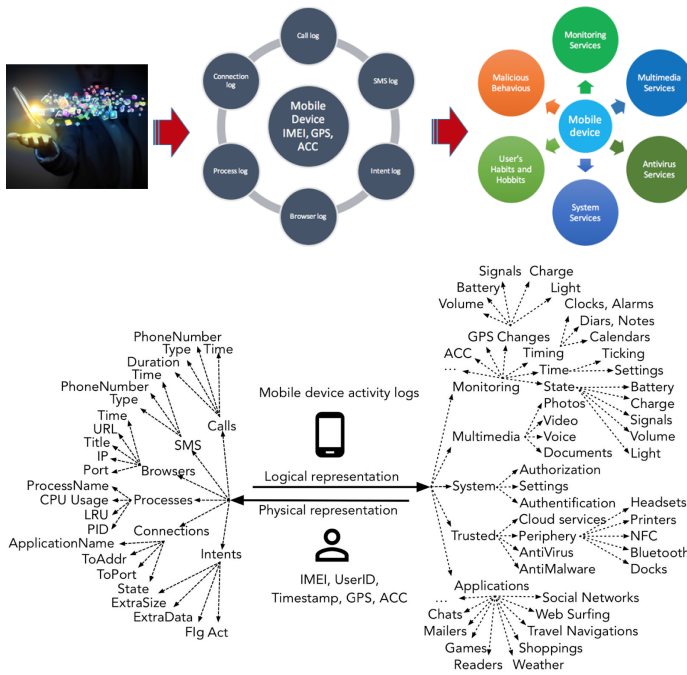
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MALICIOUS ACTIVITY DETECTION

Detection of users malicious activities based on mobile device logs



Cyber-security awareness for mobile device users

Abnormal behavioural detection based on mobile device logs

Incremental machine learning solution for private mobile network

Privacy preserving data mining due to sensitive personal information

Commercial contract

IBM Slovakia Tempest a.s.

Team

Giang Nguyen, Štefan Dlugolinský, Viet Tran, and Ladislav Hluchý



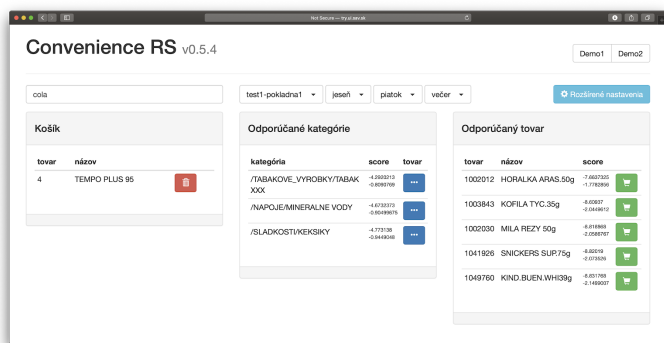
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SHOPPING CART ITEM PREDICTION

Proactive sales support based on historical transactional data



Innovation of the business sale model and deriving benefits from transactional data

Understanding and providing better services for customers



Increasing the number of sold items per visit

Dynamic category/item prediction based on shopping cart content

**Exploratory
Data Analysis**

Slovnaft a.s.

Demo

<http://try.ui.sav.sk/convenience-rs/>

Team

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TARGETED ONLINE ADVERTISING

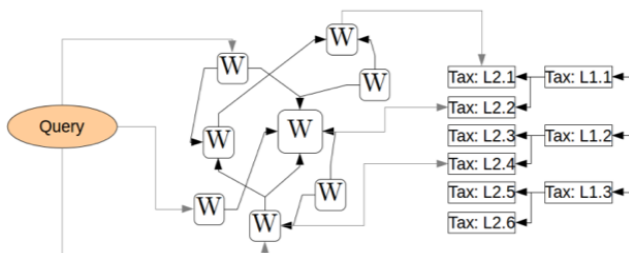
Intent-Search Query categorization, Click-Through Rate prediction



Big Data processing and targeted advertising engines

Boost online targeting revenues

- Intent-Search Query categorization
- Click-Through Rate prediction
- Query Primary Language based on keyboard identifications
- User modelling
- Fraud detection



Commercial contract

Magnetic Media Online, Inc., NY, USA

Team

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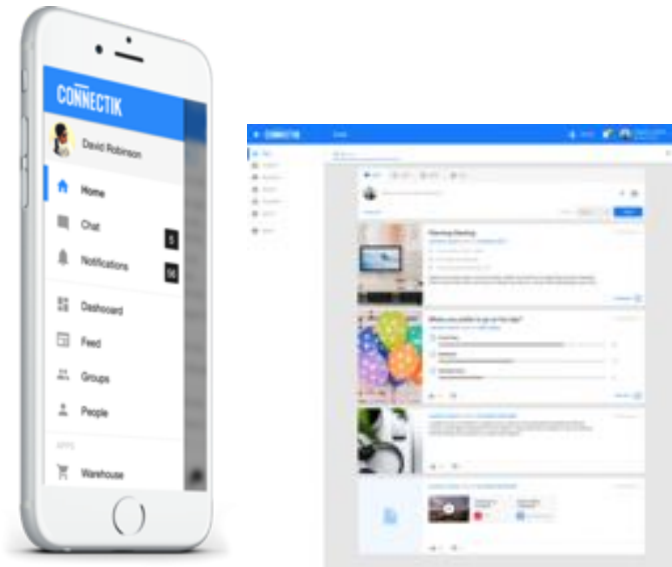


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UNIFIED COLLABORATION ENGINE

Recommendation engine for enterprise communication and collaboration



Recommendation engine for communication and collaboration for enterprises

Suggests interactions for users/posts/groups

User and group modelling is based on content-based filtering and temporal decay

Commercial contract

Connectik, Switzerland

Team

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