Interactive reporting tool

Greece

Aims
Create a web application that interacts with Apache Spark to process big data and produce interactive visualisations on intra EU labour mobility.

Data
- Cedefop data
- EURES data
- NUTS data

Methods, technologies and tools
- Process data using Apache Spark
- Create data-science notebooks on intra-EU labour mobility using Apache Zeppelin
- Create a web application with live reports to assist policy-makers
- Interactive visualisations using d3.js and dc.js
- Automate deployment on AWS or Azure using chef.io tool

Conclusions
**Key achievements:**
- reports are updated live when data change;
- complex interactive visualisations;
- using open source well-established libraries and big data tools.

**Main challenges:**
- it is a complex solution comprising many components;
- using client side visualisation produces better results at the cost of harder development;
- interacting with Apache Spark is problematic – there is no single production tool that deals with that effectively.

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