Topic #6: NYCab

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Agenda

• Description of the dataset
• Detect hotspots
• Predict future hotspots
• Organization
• Team
NYC’s Taxi Trip Data

DATASET
Dataset

• NYC’s Taxi Trip Data
• Entire year 2013
• 11.0GB
Idea - Step 1

DETECT HOTSPOTS
Idea - Step 1

• Detect hotspots in NY city based on
  – location
  – day
  – time

• Analyse
  – weather
  – events
Idea - Step 1

• Analyzing the large amount of data with:

Flink
Idea - Step 2

PREDICT FUTURE HOTSPOTS
Idea - Step 2

• Predict future hotspots in NY city based on
  – precedent trend
  – weather
  – events

• Visualization of the hotspots with
  – Google Maps
  – Depending on day and time
ORGANIZATION
Timeline

**2 WEEKS**
- Definition of the hotspot.
- Detect hotspots.
- Initial approach to requested API.

**4 WEEKS**
- Weather data collection.
- Event data collection.
- Prediction algorithm.

**3 WEEKS**
- Visualization of the results.
- Evaluation of the algorithm.

Final Workshop
TEAM
Team

Pietro Rancati
Detection hotspot
Prediction algorithm

Hans-Helge Bürger
Weather data

Filip Pawlowski
Events data

Daniel Reckel
Visualization of results
Thank you for your attention!