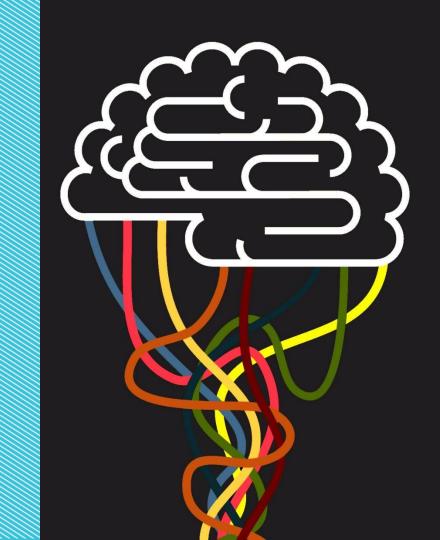
<epam>

Interactive
Development
in Jupyter Notebooks

ML Intro Training

July, 2019



Training

Topic:

Interactive development in Jupyter Notebooks

Why:

Most of Datathon cases would benefit from elements of AI/ML*

Objectives:

Get hands-on experience with explorative data analysis, ML model training, evaluation & deployment

Take-away points:

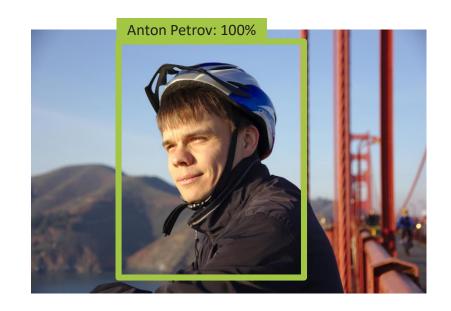
AI/ML is hard, but prototyping is quick

^{*}learning from data

About Me

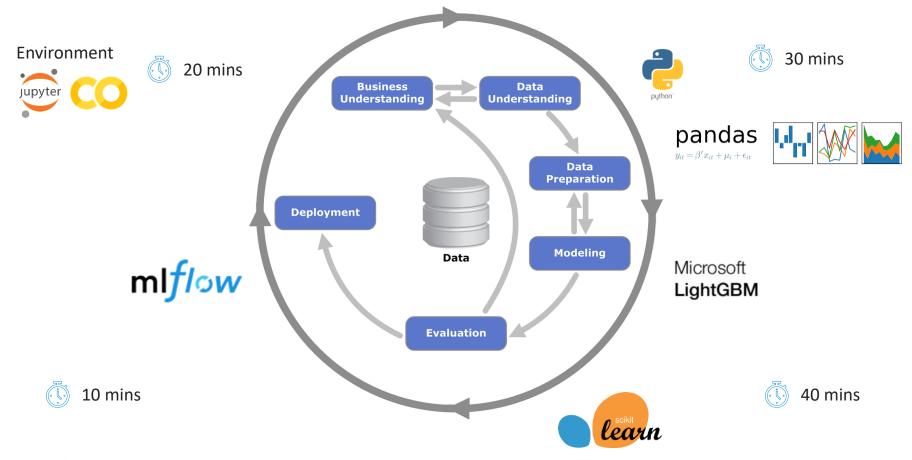
Anton Petrov Lead Data Scientist, EPAM

- Prototyping ML solutions
- Consulting on ML architecture
- Team mentoring and coaching





Agenda



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Business Case

Background

People talent is the most valuable resource we have.

Reduction of the team size increases time to market of new products and leads to revenue shrinkage, while higher employee turnover rate results in increased costs due to recruiting and training, all which negatively affects the bottom line.

HR team does their best and is constantly looking for new insights, ideas and approaches.

Challenge

Leverage historical data to identify employees likely to leave the company before they act, reveal the driving factors, provide data-driven suggestions and insights to the leadership team.

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attrition \rightarrow less revenue, more costs \rightarrow reduction of profit



Challenge

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identify employees

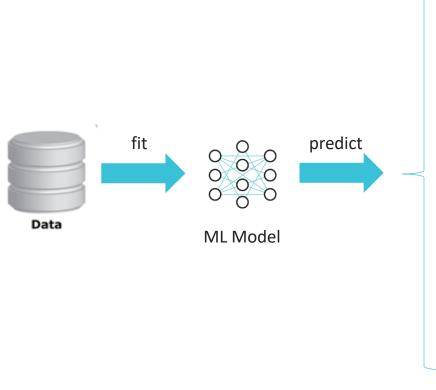
driving factors

insights

suggestions



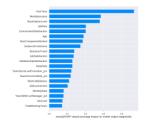
ML-first Approach



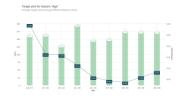


groups / clusters of employees

driving factors



insights



suggestions

