Machine Learning course

MIPT, Spring 2020

Course syllabus:

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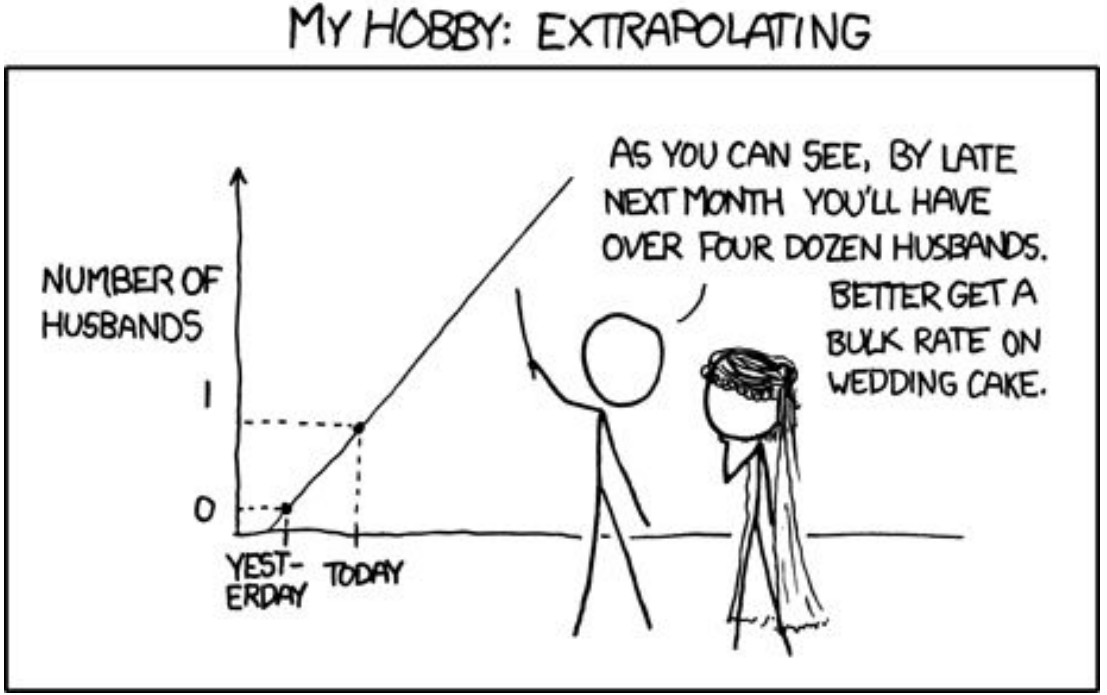

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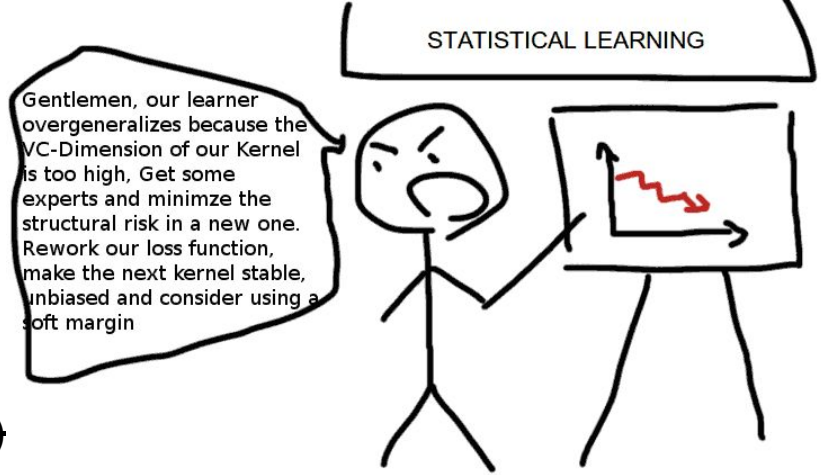

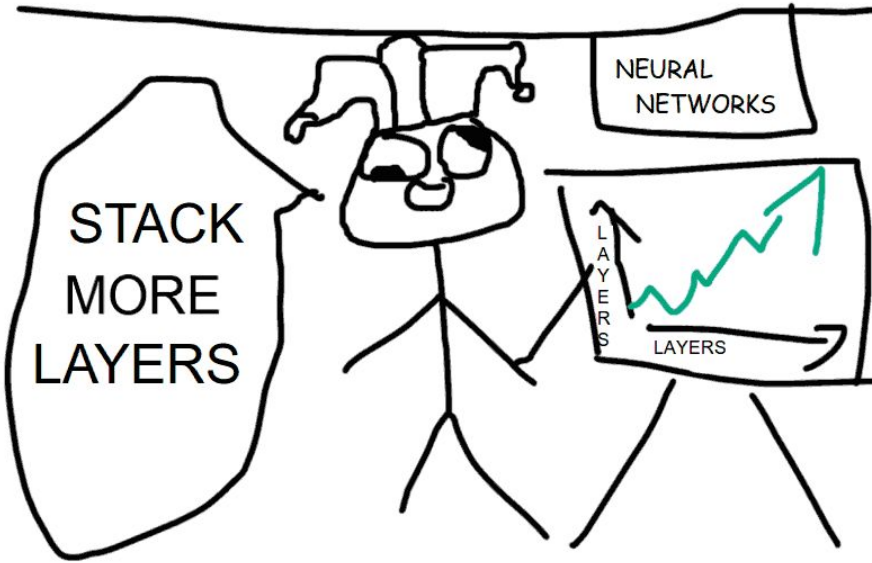

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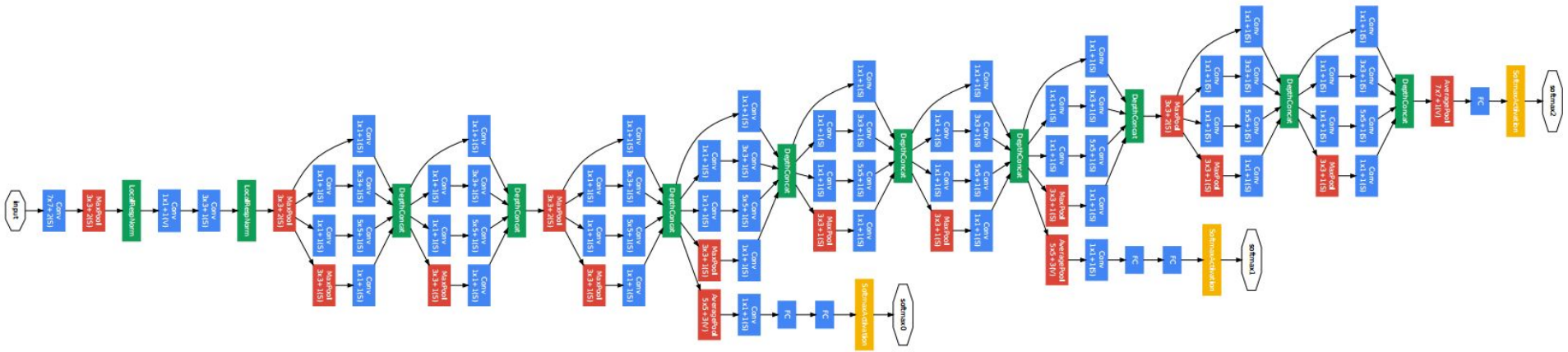
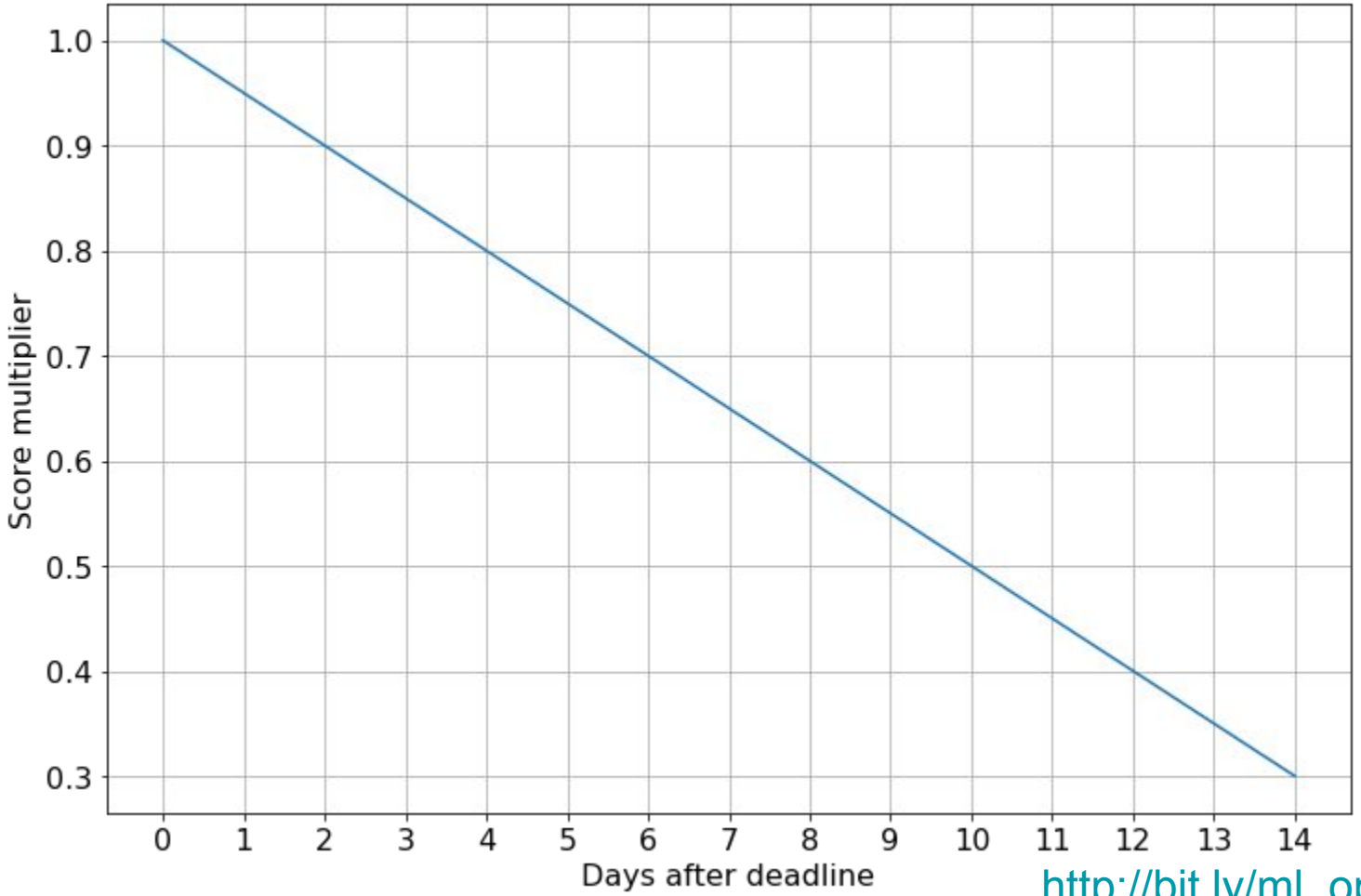
1. Linear Models, naive bayes, SVM etc.
2. Trees, ensembles (bagging, boosting …)
3. Deep Learning



Rules of play

1. Two types of homework
    a. Small assignments
        i. Simple tasks, automatic check-up, strict deadline
        ii. 1 point per assignment
    b. Laboratory assignment
        i. Big task with several milestones
        ii. Whole pipeline (data preprocessing/EDA/training-validation/error analysis/report…)
        iii. Many points (3-4-5-even more)
        iv. Soft deadline: one could get some points even after deadline

Once more: deadlines



http://bit.ly/ml_open_fall19

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1. Two types of homework
   a. Small assignments ~ 10 points
   b. Laboratory assignment ~12 points
2. Exam at the end of course
   a. Oral exam.
   b. No “cards”
   c. ~ 7 points
   d. Theoretical minimum is mandatory

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   c. Your projects (open source/kaggle/hackathons)

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4. Opportunities
   a. Internships/Interviews in tech companies (if it works :)
   b. Fun

Technical stuff

- Python 3.6+
  - Miniconda is recommended for env managing
- Supported platforms: Linux/macOS/docker
  - Anything else on your own risk
- Yandex account (required for authentication)
- Part of materials (especially DL) will be in English - get ready ;)
- Course chat in Telegram
- All materials are available at github: github.com/ml-mipt/ml-mipt
- And on our tiny page: ml-mipt.github.io
- Lectures will be recorded and available online

Q&A