

BS and MS thesis works

—

of high quality

# Make student thesis works the art

- The thesis work is submitted for publication in a scientific journal
- The code is ready for inheritance
- The defenses deliver a clear scientific message

## The problems

- BS students start scientific research too late  
(the worst case is two weeks before the defense)
- MS students have no time for their thesis  
(the worst case, their daily routine is complex)
- Supervisor's spare time or lacking planning skills (the worst case, both)

# In a nutshell

We create a system for how to

1. Guide a student through research
2. Facilitate a supervisor to conduct research
3. A series of research reports (each semester)  
make a way to create thesis works of high-quality
4. Elaborate a consistent system and rules of work quality evaluation
5. Share the works proudly as the main university indicator product

# My first scientific paper

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m1p.org

# Present state of the course

- Machine learning: papers with code
- 10 years of delivery, each spring for undergrads, 3rd year
- More than 400 projects in SourceForge, more than 200 projects in GitHub
- Typical group: 27 students, each has an MS-graduate supervisor and a professor as an expert (up to 30 support participants)
- Maximum load group 172 students
- The most wanted result: 11 papers published by a group of 12 students
- Youtube channel: 120 student talks

# The course impact

- Guarantees BS and MS thesis works of good quality
- The student thesis works show high standards of education
- Our students have several papers published before the MS degree
- Student with papers looks competitive in the market of industry and science
- Advisors and laboratories receive “ready-to-scientific-research” students
- Grants and prizes go to students with papers

# Plans and solved problems

Expand the course to

- 1) students of friendly labs all over the world,
- 2) show professors the course saves a lot of their time;

since it resolves the following problems:

- 3) the student has difficulties in searching supervisor,
- 4) the supervisor has difficulties in research planning (risk estimation part),
- 5) supervisor expects students to time waste and burden (routine vs creativity).