FOLLOW PMDS













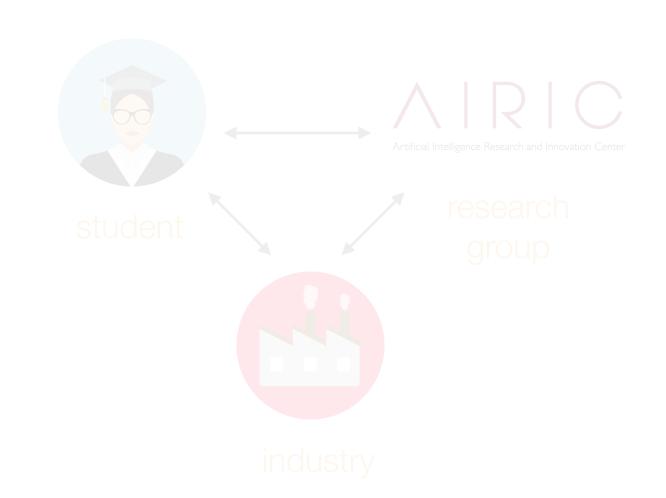








Industrial research



Expected outcome

- A new scientific breakthrough
- Publication in a top-ranked venue

Primary perspectives

- National/international research laboratories
- PhD program
- Al/ML scientis

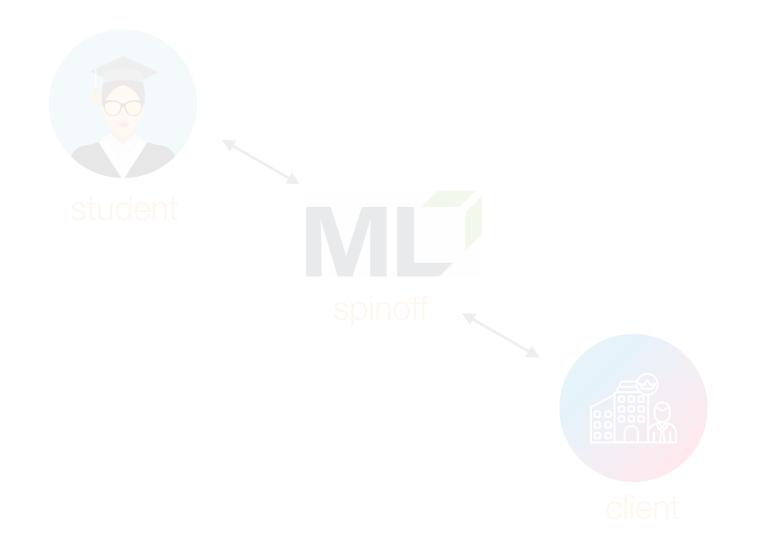
Expected outcome

- Design of a Proof of Concept
- Real-world test

Primary perspectives

- Industrial research and development (R&D) groups
- Al/ML scientist/engineering

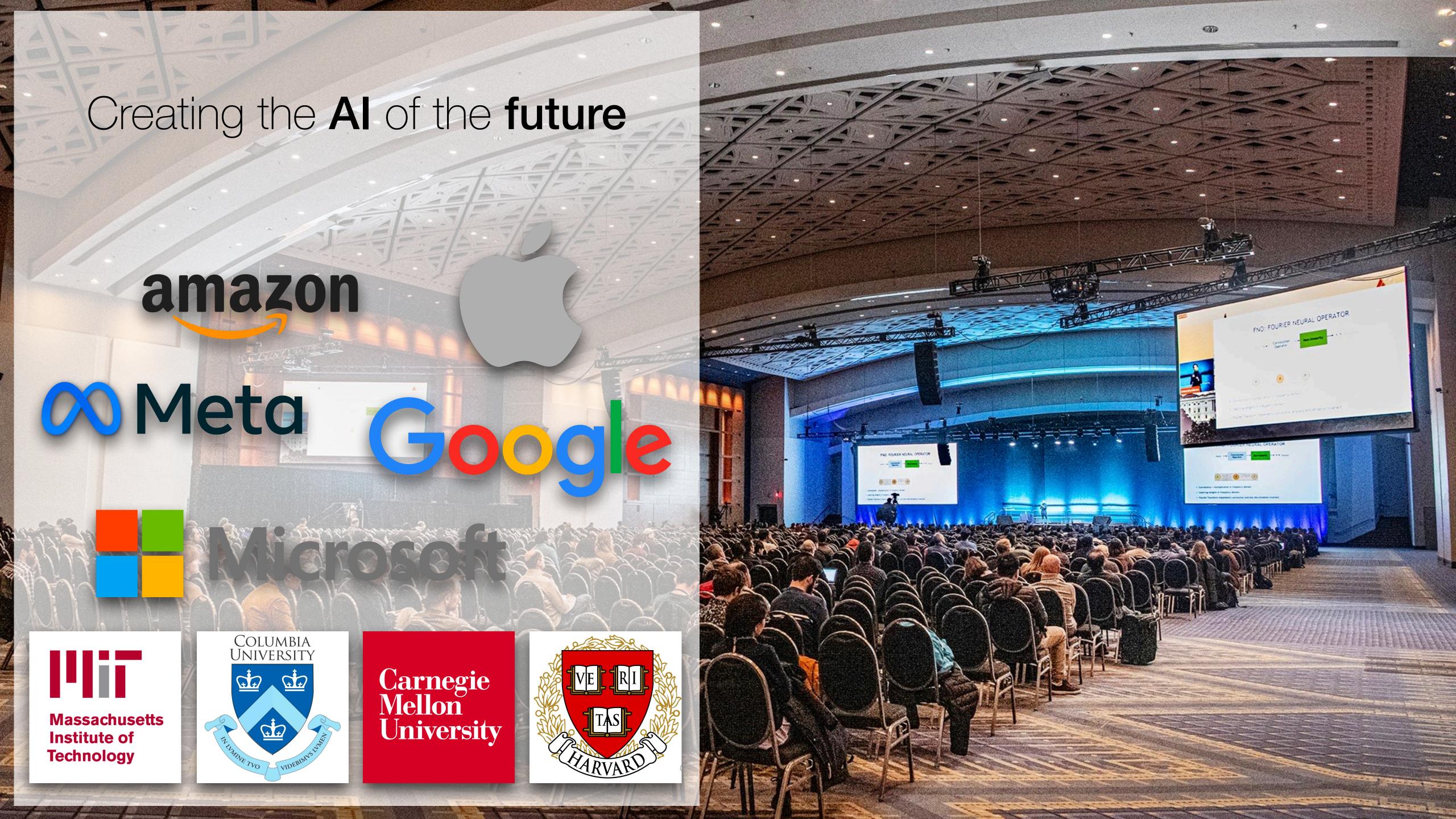
ndustrial deployment



Expected outcome

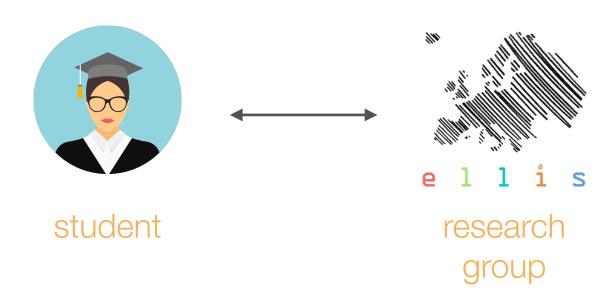
- Real-world system development
- Al system deployment

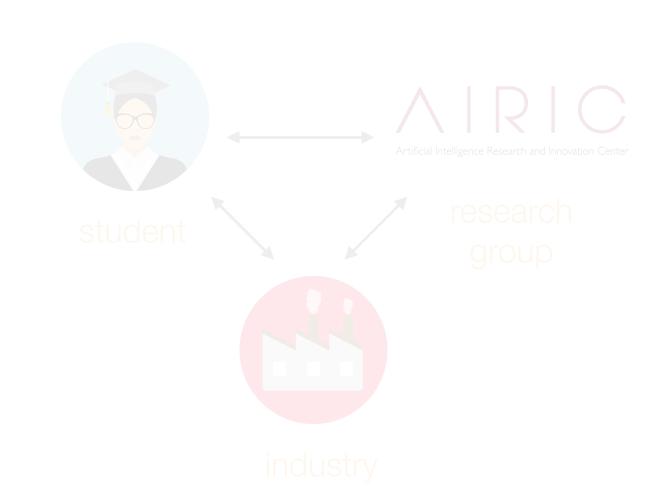
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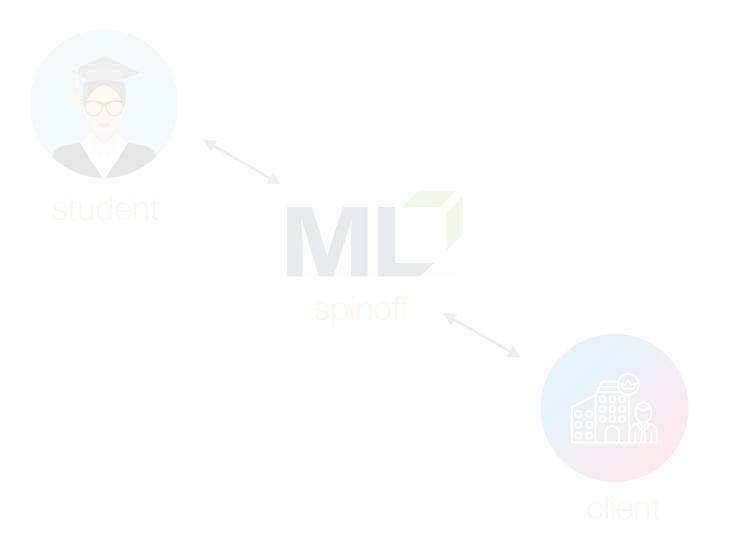
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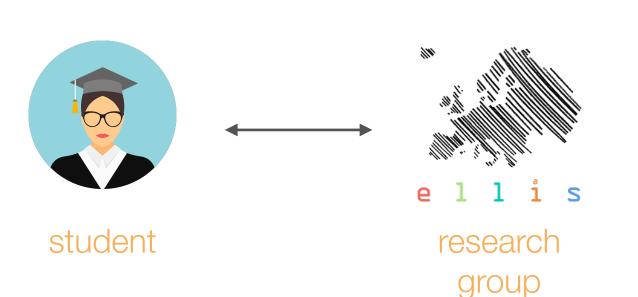
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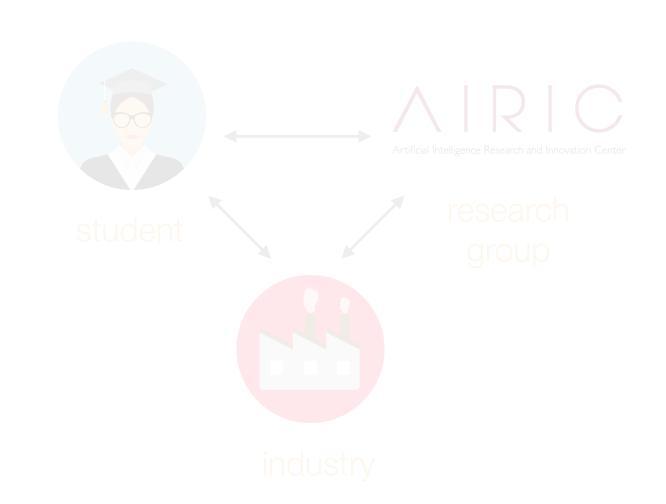
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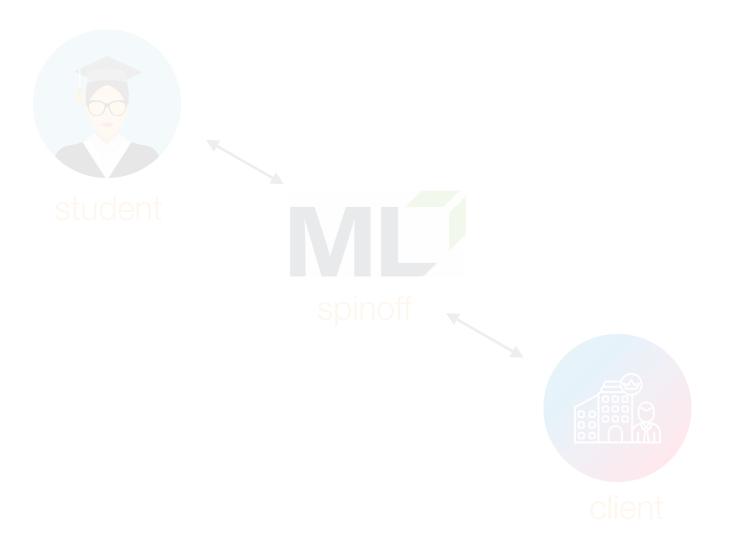
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Supporting the Al revolution of the companies























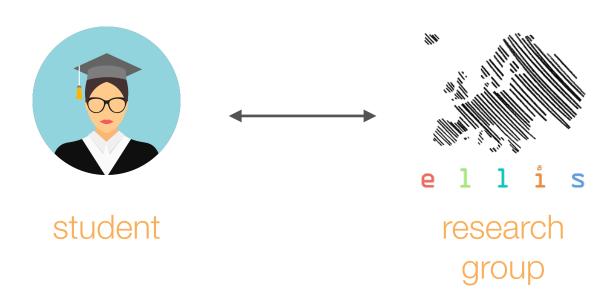


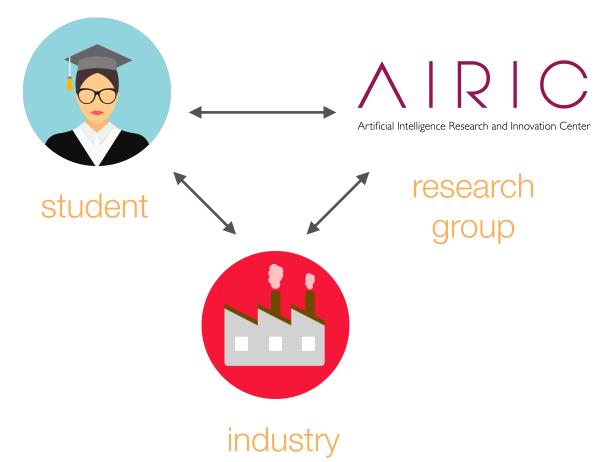
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Industrial research

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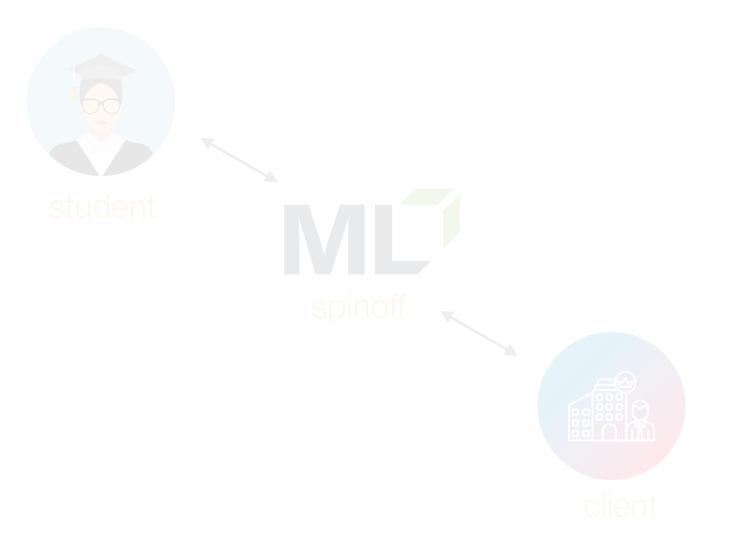
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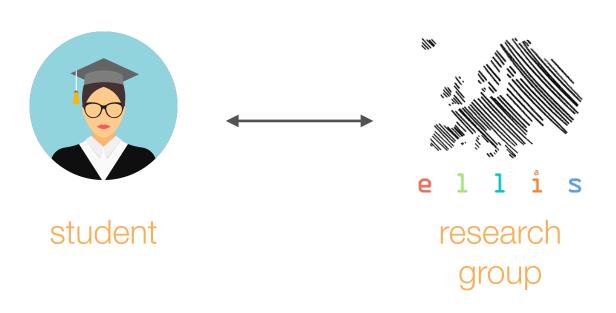
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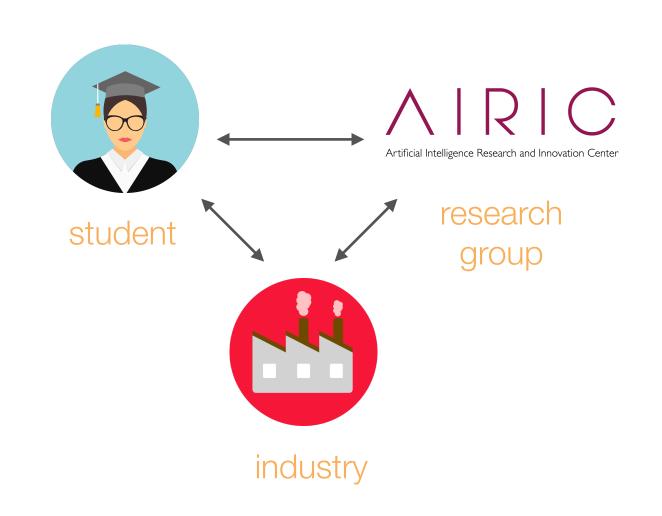
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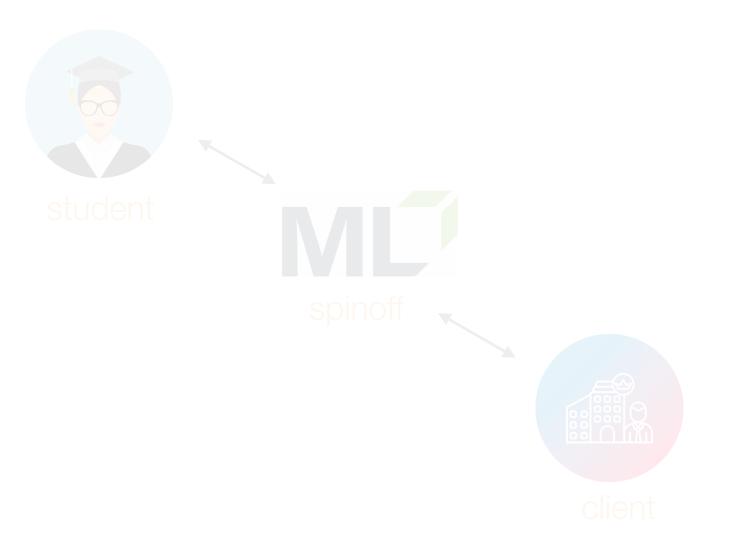
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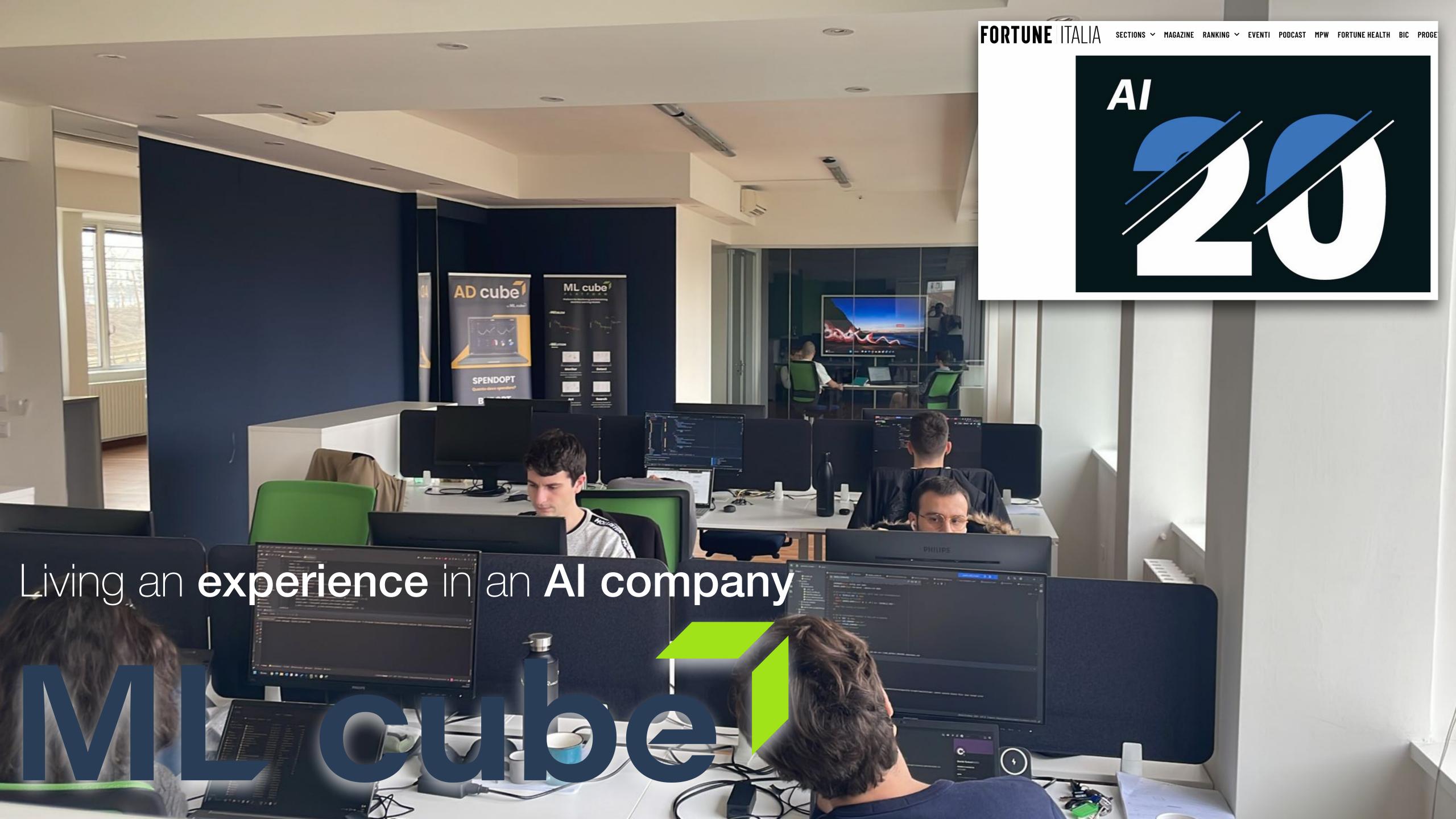
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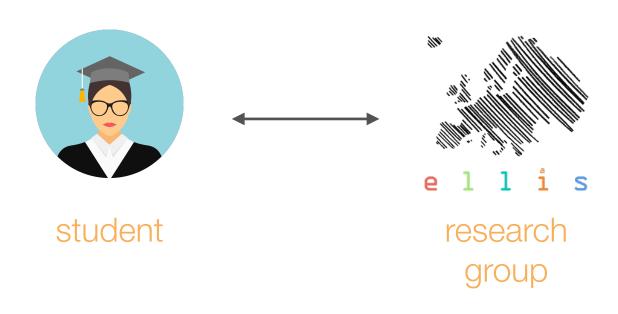
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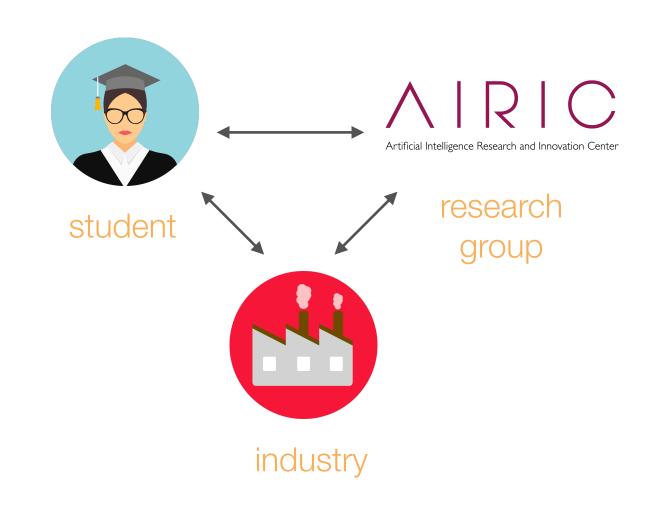
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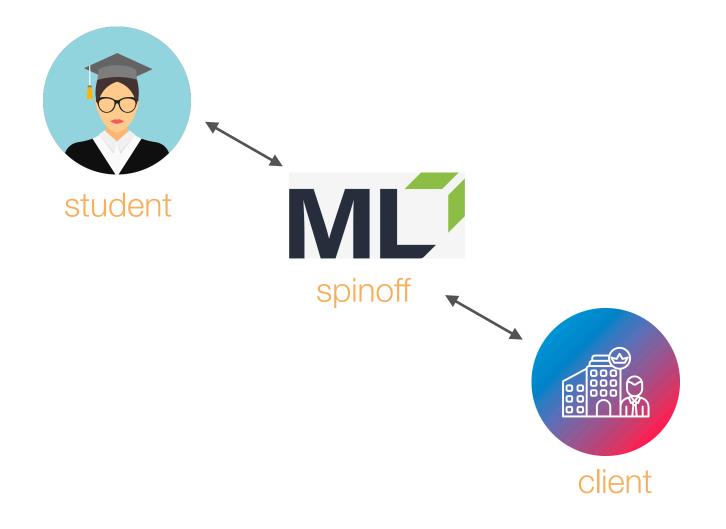
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- Data-driven learning of models
- Learn to predict target variable and/or group data based on their characteristic
- Address complex highdimensional sparse datasets



Reinforcement learning

Machine learning

Reinforcement learning Sequential agent-environment interaction Learn the decisions to

- Learn the decisions to maximize the cumulative reward
- Wide-range applications



Reinforcement learning Online learning Machine learning

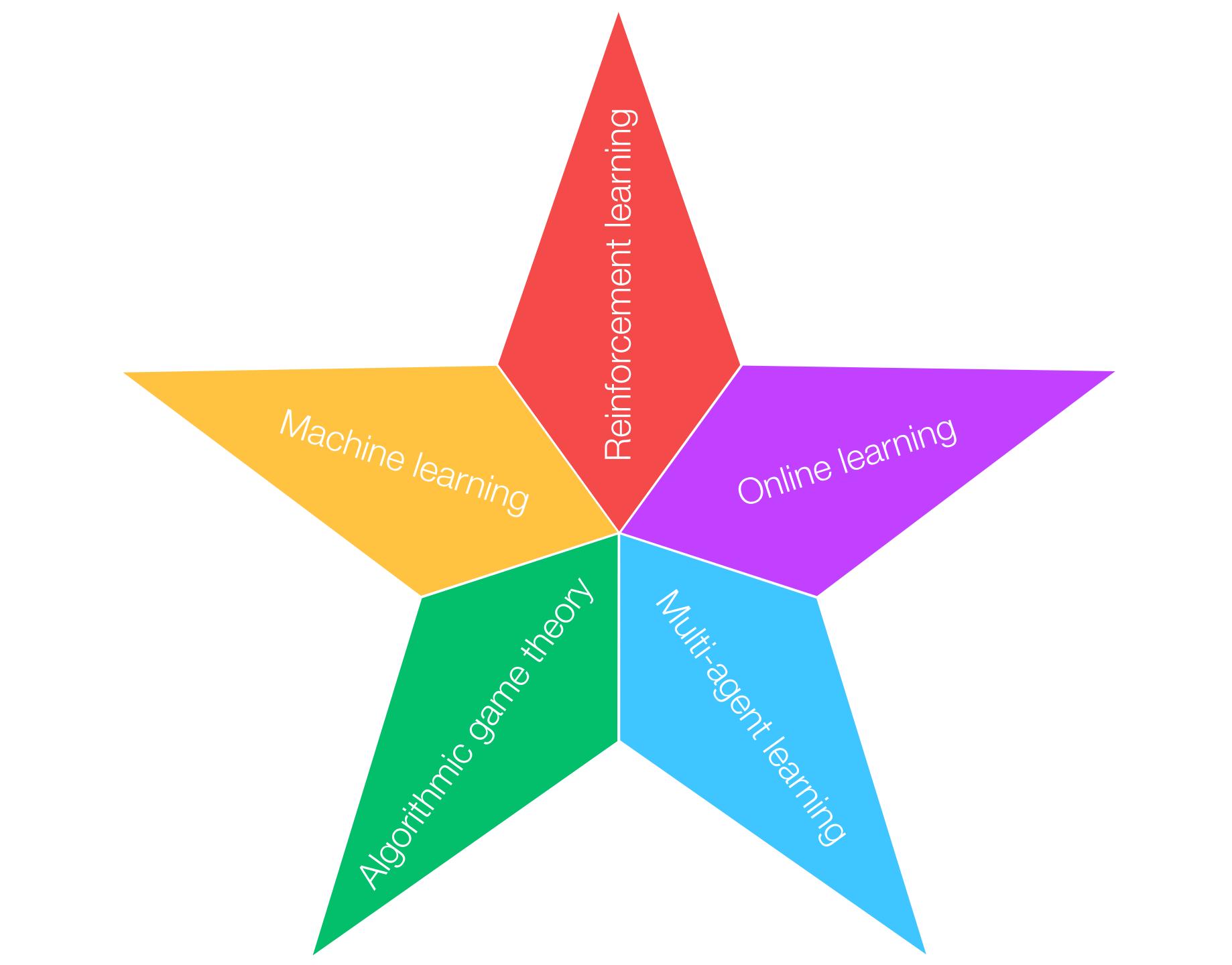


Reinforcement learning Online learning Machine learning

Multi-agent learning

- Decision-making in complex competitive and cooperative scenarios with multiple agents
- Use game theoretical notions of equilibrium to prescribe behavior to agents
- Learn under adversarial environment (usually by online convex optimization)





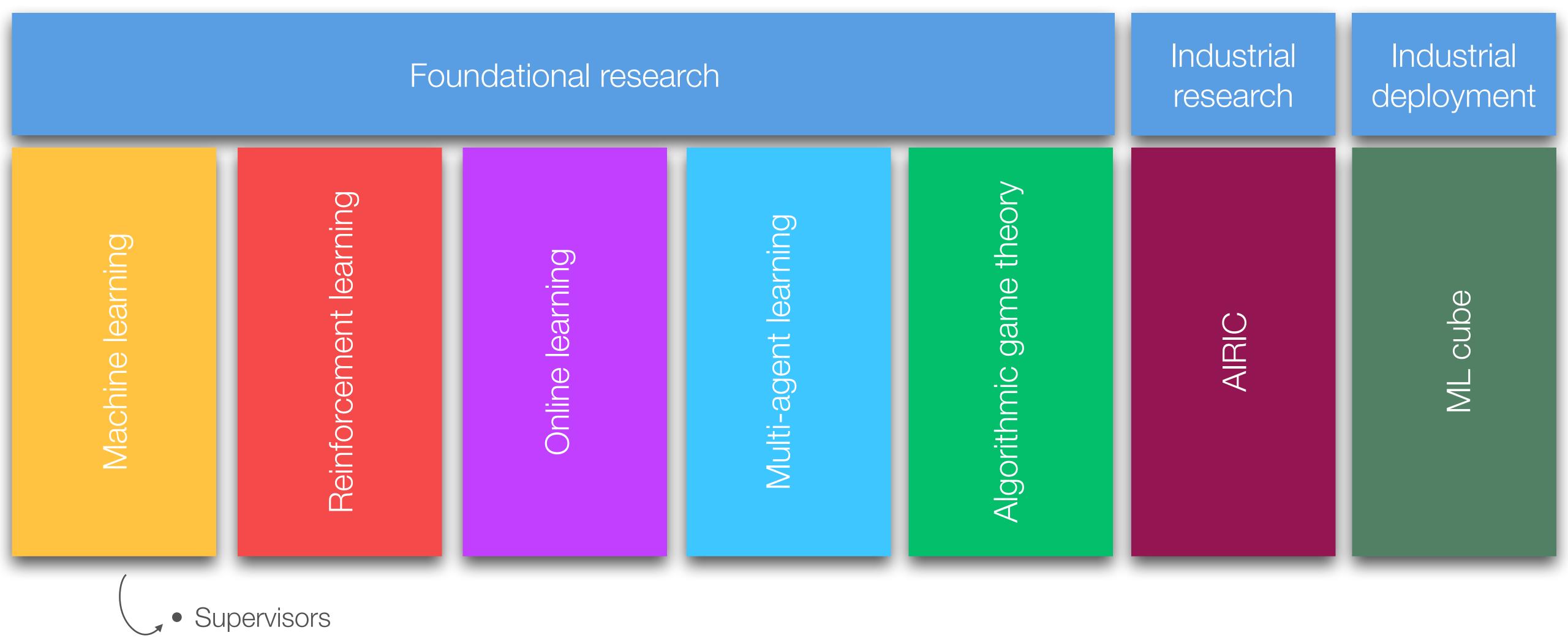
Algorithmic game theory

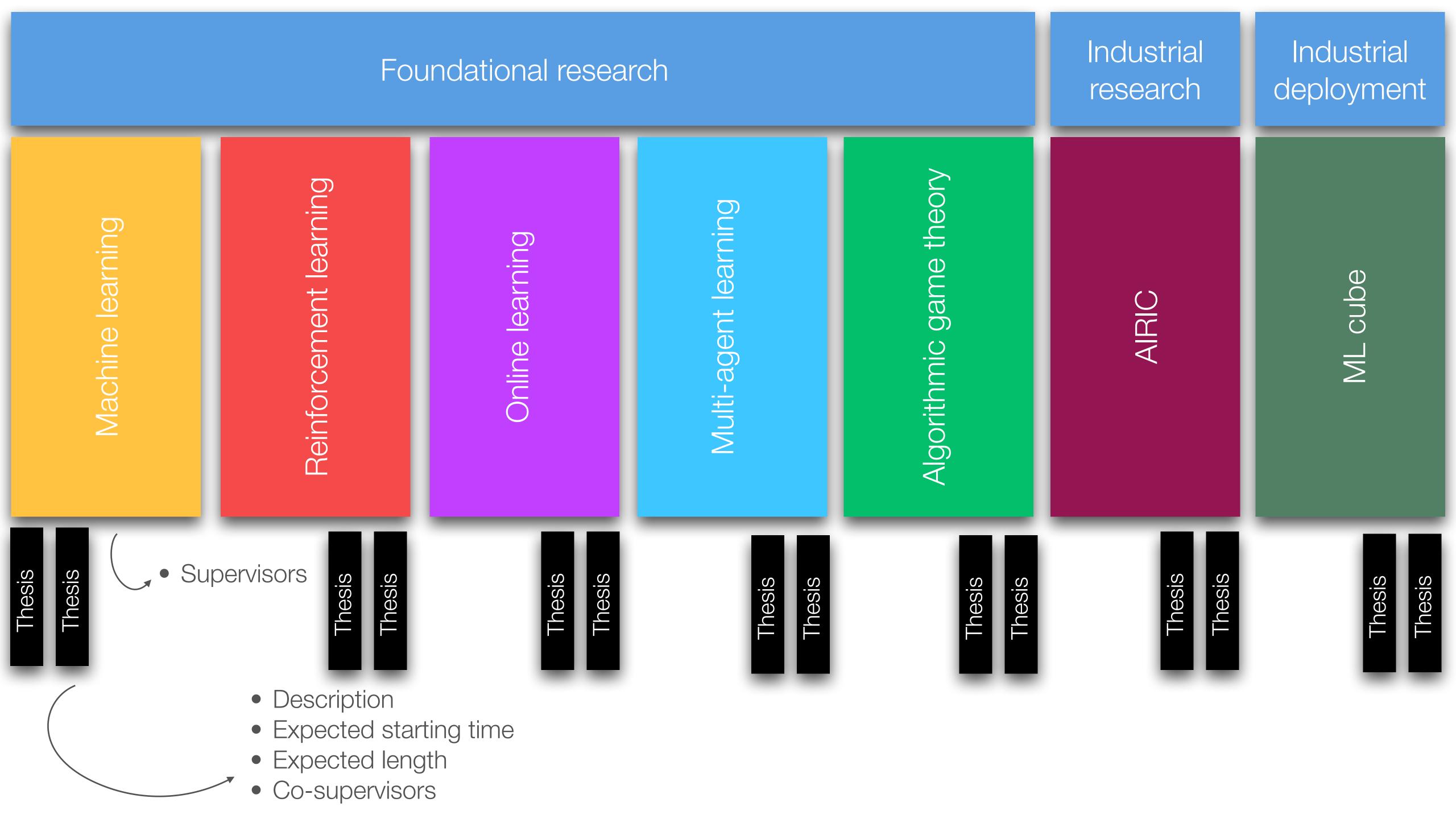
- Modeling complex situations with multiple rational entities
- Assessing the complexity of computing optimal solutions
- Applying algorithms to economic settings (e.g., persuasion and contracts)



Industrial research

Industrial deployment





Read the description of the thesis proposals here



Bid the thesis proposals you are interested in here



Deadline: September 13, 11:59 pm