

Final Project

Deliverables

- Decide your project idea (**by I2.07**)
 - The problem you will be addressing
 - How you plan to address it
 - What are you proposing to specifically design and implement
- We are happy to discuss project ideas via e-mail or in person

Deliverables

- Report (**Individual**)
 - What problem you solved
 - What your code does
 - e.g., Background, Design, Implementation, Evaluation
- Presentation (**Group**)
 - 15 mins

Half-baked project ideas

- Re-implement a system on our cluster
 - Tiny TensorFlow
 - Ray
 - PyTorch + Spark
 - Collaborative editor
- Benchmark

Case Study

Benchmark Test of Message Queues -- Kafka and ActiveMQ

- A general benchmark test tool
- Metrics: throughput, latency, reliability, fault tolerance, scalability
- Single vs. Multi-nodes
- 12-24 hours/person

Score

- 每人需要为每组评分（除了自己这组）（50%）

- 每项满分100，给出不重复的分数

- 工作量

- 创新性

- 课堂展示

$$f(r, n, \alpha) = \alpha + (100 - \alpha) \sqrt{\frac{(n - r + 1)}{n}}$$

- 教师评分（50%）