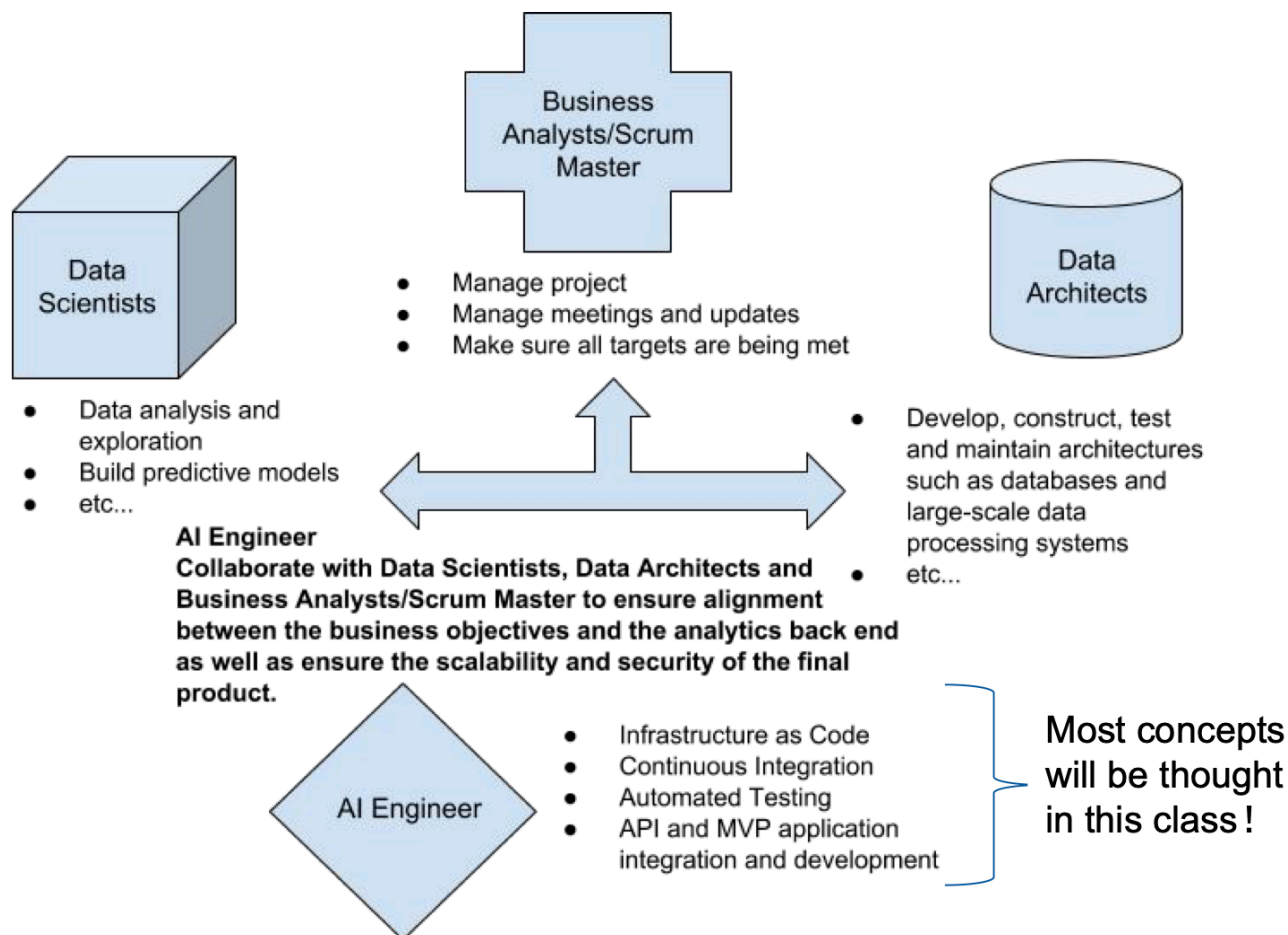


Lec1

AI Software Engineer

What is AI Software Engineer



Software Processes

Agile

XP

Theoretical

Waterfall

Formal

Rational Unified Process (RUP): 统一软件开发过程（英语：Rational Unified Process，缩写为RUP）是一种[软件工程方法](#)，为[迭代式](#)软件开发流程。

Distributed, open-source

Bazaar: The *Bazaar* model, in which the code is developed over the [Internet](#) in view of the public.

XP

Roles

- XP: Customer, Developer, Coach

- Scrum: Pigs (product owner, dev team [3-9 ppl], Scrum master), Chicken (customers and executive management) (http://en.wikipedia.org/wiki/The_Chicken_and_the_Pig)

□ Activities

- XP: Write stories, planning game, test-first, pair programming, continuous integration, refactoring

□ Work products

- XP: User stories, tests, code

Project Management (管理方面)

- Project initiation
- Project monitoring and control
- Software quality management

Development (流程)

- Requirements
- Design
- Implementation

Post-development

- Installation
- Operation and support
- Maintenance
- Retirement

□ Integral processes

- Verification and validation
- Software configuration management □ Documentation development

What is (not) S.E.?

- Not just software programming
- Individual vs. team
- Not just a process
- Field that studies several different processes

- IEEE 610: "The **application** of a **systematic, disciplined, quantifiable** approach to the **development, operation, and maintenance** of software."