

Olof Harrysson

Your teacher for the second half of Data engineering and agile methods.

Taking over from Kokchun who's on parental leave.

Master in **Computer Science** from Lund University 4 years of work experience as a programmer in ML. ITHS board member for this education



Modulai is ML consultancy ~20 people.

Questions are welcomed!





Data Engineering

Needed in all ML projects!

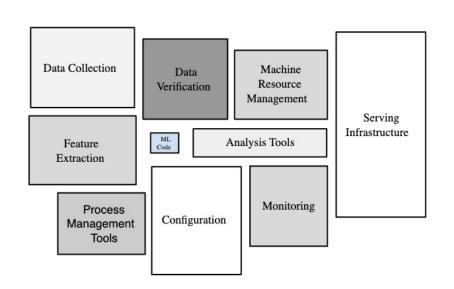
Data Engineering builds good software skills that can be applied elsewhere.

Practical field where you can be useful quickly.

More programming/infrastructure. Less math/modeling.

Good job opportunities.

Less competition from theoretical educations e.g. math PhD students. They usually do more data science.





Course Schedule

School starts.
Repetition and project preparation.

Project deadline with presentation and technical report.

W	/eek	Content
;	21	course intro, why data engineering, Linux, data pipelines, docker intro, dockerfile, docker compose, study visit Ericsson
2	22	containers, data engineering lifecycle, code review, ELT, Airflow intro, DAGs, operators, tasks, Xcom, study visit Olsaro
2	23	schedule data ingestion, TaskGroup, SCB API, orchestrate data pipeline,
- (33	repetition, guest lecture agile theory, github actions CI/CD, pre-commit, code tests
;	34	project start, data version control (DVC), postgres database
;	35	project, Intro to Azure and deploy a pipeline to Azure.
	36	project, ethics and data security - guest lecture?
-	37	project - presentation and report
;	38	inspiration: spark, databricks, data lake, data factory, data pipeline on Azure. Modern data stack - study visit Knowit



Today

Preparation for the project.

- Repetition lecture
- 2. Repetition exercise Bash
- 3. Pimp my terminal
- 4. Bandit game

https://overthewire.org/wargames/bandit/bandit0.html

ssh bandit0@bandit.labs.overthewire.org -p 2220

