# 02466 Project work in Artificial Intelligence and Data LOGBOOK

Christoffer Wejendorp, [s204090@student.dtu.dk](mailto:s204090@student.dtu.dk)

Khalil Ahmadi, [s204161@student.dtu.dk](mailto:s204161@student.dtu.dk)

Michael Damholt, [s204151@student.dtu.dk](mailto:s204151@student.dtu.dk)

Mathias Hadi Dyhr, [s204156@student.dtu.dk](mailto:s204156@student.dtu.dk)

*The main purpose of the logbook is that it serves as a tool for you to keep track of the project and document project meetings.*

**Project Meetings**

**Week 2: 09.02.22**

We made a draft for our “Samarbejdsaftale”.

We had questions about general info regarding the project, e.g. ‘how does the data set look like?’, and decided to write a mail to our supervisor, Maxim.

We agreed that we would meet next Wednesday, having the necessary material read such that the project plan can be completed. (Chapter 2 to 5 in Styrk Projektarbejdet and the Canvas Manual)

We agreed to research about Gantt charts.

**Week 3: 16.02.22**

We completed as much of the ProjectCanvas as possible. Still needs milestones and actions. We assume this will be easier to complete after the data has been explored more.

We initiated the Gantt Chart but we need more clarification on some of our activities.

Doing the meeting we received a part of the complete data set from the supervisor. Based on this we agreed to look through data and get a better understanding of the structure of the data and think of ways to solve the problem.

**Week 3: 22.02.22**

We met today for the planned Q&A session (for all the project groups) with our course supervisor, Morten Mørup, and he answered some doubts about what our project plan should include.

We spent much time after the Q&A session looking into what our project description should include and went through some of the papers our supervisor sent us to form research questions. Assessing the main problem of our project, we found out the solution could be split into two parts - Detecting the barcode (a Scene Text Recognition (STR) model is needed) and recognizing the numbers (an Optical Character Recognition (OCR) model is needed). We discussed a lot about what specific STR- and OCR models we would like to implement and compare for this problem and decided it would be best to make the decision tomorrow, after reading through all the research papers that our supervisor had sent us yesterday (21.02.22). Barring this important decision, we worked on everything else, which we could work on, on the project description and found that we got a much better (more concrete) overview of how our plan would look like.

**Week 4: 23.02.22**

*We finished the project plan including: the Project canvas, the Gantt Chart, Learning Outcome and the Project description. Completing this plan included long discussions with different opinions on how to conduct the project and the end-goal.*

*We will use the project plan as the basis for the discussion with our supervisor in 2 days.*

**Week ??: dd.mm.yy-dd.mm.yy**

*Questions*

*Reading, who and what*

*Implementation, who and what*

*Results, who and what*

*Decisions, who and what, what do you do alone, what do you do together*

**Supervisor Meetings**

**Week 2: 11.02.22**

We had a kick-off meeting with our supervisor, where we were introduced to the setting in a more in-depth presentation and discussed some of the details of the project. To inspect the dataset, which contains sensitive data, the rules require us to sign a NDA and our supervisor will send it sometime next week. Albeit we were able to discuss the form of the problem and what tools we could use. The scope of the project can be scaled such that it fits our skills and time.

The structure of the problem can be set up as:

* Performing OCR to match barcodes to products
* Image recognition (Score how well the installation was performed?)
* Performing NLP on conversation between customer and technician to correlate with score.

We agreed to meet every week, Friday 14:00, building 321-221.

To next Friday, we can look at packages and look at how to set up a virtual environment.

**Week 3: 18.02.22**

Unfortunately, the planned meeting was not held as our supervisor could not meet. At this moment, we are not sure of the cause, it might be some miscommunication.

However, we spent some time looking and discussing the given dataset to tackle the problem, one of the challenges we talked about was noise/pictures of wrong objects and blurry barcodes.

We have questions about the Gantt diagram and Canvas, but we plan to wait for a Q&A-session with our course supervisor, Morten Mørup, presumably next Tuesday (22.02.22).

**Week ??: dd.mm.yy-dd.mm.yy**

*Presentation of results since*