# What's next?

Saturday, 7 June 2025    12:53

| Date | Notes |
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| Tuesday, 8 April 2025 | |
| Wednesday, 9 April 2025 | |
| Thursday, 10 April 2025 | |
| Friday, 11 April 2025 | |
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| Friday, 30 May 2025 | |
| Saturday, 31 May 2025 | |
| Sunday, 1 June 2025 | |
| Monday, 2 June 2025 | |
| Tuesday, 3 June 2025 | |
| Wednesday, 4 June 2025 | Upcoming: I'll have some time. I want to refine my model and define a clear benchmark. |
| Thursday, 5 June 2025 | Upcoming: some better graphs. Outside of training range graph. Analysing of data. |
| Friday, 6 June 2025 | Upcoming: WEEKEND: Lit. Review final refinement. Arbeitsprotokoll redo in outlook or something. Fun: analysis of deviation of longer expressions in range. |
| Saturday, 7 June 2025 | Upcoming: I'm prolly gonna get a response tomorrow regarding the lit. study thingy, so correcting that should be neat. On Tuesday, my dad will give me the grammarly grammar corrections. Additionally on the weekend I want to: look at 0.5 padding and maybe start analyzing different architectures (as in neurons and layers) of the model. |
| Sunday, 8 June 2025 | Didn't get a response yet lol. I'm not sure if it's gonna be enough to finish training other models with different architectures. I forgot to do it today, but you should try different floats for the padding tommorow. |
| Monday, 9 June 2025 | Still no response. I'm meeting up with my dad tomorrow, because he has grammarly. Tommorrow and the next day are probably just polish up at this point. I would like to finish up the examination of different models and |

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|---|---|
| Monday, 9 June 2025 | training other models with different architectures. I forgot to do it today, but you should try different floats for the padding tommorow. |
| Tuesday, 10 June 2025 | Still no response. I'm meeting up with my dad tomorrow, because he has grammarly. Tommorrow and the next day are probably just polish up at this point. I would like to finish up the examination of different models and submiting this notebook. I NEED TO ASK J.SMITH WHICH FORMAT SHE PREFERS |
| Wednesday, 11 June 2025 | For tomorrow I need to finish up correcting the literature study, as well as reach an end in the FNN notebook. |
| Thursday, 12 June 2025 | No more stress for now. Coming up next is a presentation. I should get to working on that as soon as possible (bcs of exams). Depending on what I'll be submitting (with or without code) I might have to code a little further: I could look at the effects of regularization, drop out or different batchsizes. |
| Friday, 13 June 2025 | Tomorrow or even later today I could already start working on the Powerpoint. The goal in the back of my mind is to finish the Powerpoint on the weekend, and then just do some polishing up during the week. |
| Saturday, 14 June 2025 | |
| Sunday, 15 June 2025 | |
| Monday, 16 June 2025 | |
| Tuesday, 17 June 2025 | |
| Wednesday, 18 June 2025 | |
| Thursday, 19 June 2025 | |
| Friday, 20 June 2025 | |
| Saturday, 21 June 2025 | |
| Sunday, 22 June 2025 | Next up: compute the same for MAEs outside the number range, implement confidence intervals, add this to the benchmark maybe? |
| Monday, 23 June 2025 | |
| Tuesday, 24 June 2025 | |
| Wednesday, 25 June 2025 | I kinda finalized what I was working on; the graphs. The solution still didn't really satisfy me though. I'm open for alternative ways of combing multiple plots into one big figure.<br>I also encountered a problem today, with the confidence intervals, which I should get resolved, instead of sweeping it under the rug. |
| Thursday, 26 June 2025 | I already looked into it, but maybe a short research section into discovering the tasks of the different layers and afterwards, implement it to my code. The code for the FNN seems fine as is. Maybe it's time to move on to RNNs? |
| Friday, 27 June 2025 | |
| Saturday, 28 June 2025 | I want to try another method for reducing over-fitting, like regularizatio, and also batchsizes, after that I can move on to the next notebook. Additionally I also NEED to introduce proper positional Encoding.<br>The Goal is to finish working on the FNN notebook over the 4day weekend break. |
| Sunday, 29 June 2025 | |
| Monday, 30 June 2025 | I need to fix the integrated gemini in google colab, it's ruining the workflow. I want to try using a tokenizer from a library like BERT or something. I need to need to explain the results of today. ALSO RESEARCH DIFFERENCE POSITIONAL EMBEDDING / ENCODING |
| Tuesday, 1 July 2025 | I'm almost finished. The tokenizer seems to be working. Tomorrow I'll have to L2 regression and after that, I think I'm done with FNN. |
| Wednesday, 2 July 2025 | Next I need to set up a jupyter notebook and start with the recurrent neural network. |
| Thursday, 3 July 2025 | |
| Friday, 4 July 2025 | |
| Saturday, 5 July 2025 | |
| Sunday, 6 July 2025 | |
| Monday, 7 July 2025 | |
| Tuesday, 8 July 2025 | |
| Wednesday, 9 July 2025 | Next, I need to evaluate the results of the RNN and compare them to the ones from FNNs.<br>Later Goals are looking at using of GRU and LSTM RNN-layers. |
| Thursday, 10 July 2025 | The next step is to evaluate the usage of multiple RNN layers and neurons in a heatmap like before with the same benchmark and compare the two obviously. |
| Friday, 11 July 2025 | |
| Saturday, 12 July 2025 | I need to fix the error tomorrow. Hopefully shouldn't take too long. Rerun and hope for the best, else debugging. |
| Sunday, 13 July 2025 | The next step is the usage of GRU and LSTM and maybe first analyzing the results I got, maybe there is a reason for the poor performance of the RNNs, but in the single generation of an RNN I found similar results to be fair, so this poor performance was kinda expected. |
| Monday, 14 July 2025 | I need to generate the Heatmap for GRUs next |
| Tuesday, 15 July 2025 | Next, I have to add attention. |
| Wednesday, 16 July 2025 | |
| Thursday, 17 July 2025 | Tomorrow, and for the rest of the week, I want to investigate the attention mechanism further. Tomorrow I would like to draw a heatmap of that new model I built today. And reorganize the filing AND upload to github (AND setup the ssh from laptop to desktop) |
| Friday, 18 July 2025 | |
| Saturday, 19 July 2025 | Tomorrow I will start the documentation properly. (I actually started today late in the evening) Tomorrow I want to get to defining the attention mechanism in the documentation. I think I'll even skip forward to it. |
| Sunday, 20 July 2025 | |
| Monday, 21 July 2025 | |
| Tuesday, 22 July 2025 | |
| Wednesday, 23 July 2025 | First thing tomorrow, need to convert notebook to script, that's gonna take a little less then an hour probably. Next I should update the github.<br>I will try and figure out how google jules works now, and maybe use it. For optimising my gihub repository. The next goal for my next session will be to |

Overlying goal til summer break:
- Finish work on the FNNs

Migrate to jupyter for the RNNS, colab is inconsistent and gemini isn't working anymore.
-> The free GPU's are worthless, gemini doesn't work, requires internet connection, cloud saving system.

Goals for Holidays:
  Min:
- RNNs finished
- Improve documentation
- Improve workflow and try out Jetson GPU
- In case stuck: documentation in latex
  Additional:
- Transformers (big, deep topic)
- Transformers more research -> attention
- In case stuck: Look into fine-tuned LLMs (should be easier I think)

| Date | Entry | Notes |
|---|---|---|
| Tuesday, 22 July 2025 | First thing tomorrow, need to convert notebook to script, that's gonna take a little less then an hour probably. Next I should update the github. | |
| Wednesday, 23 July 2025 | I will try and figure out how google jules works now, and maybe use it. For optimising my gihub repository. The next goal for my next session will be to research the implementation of transformers for my task.\n\nEdit: goal for tmrw: begin transformers, just dive in I guess. | **Big Problems:**<br>- Investigate the embedding and positional encoder used in RNNs and FNNs. The possible mistake above might be the reason for the poor perforance of attention-RNNs.<br>- LONG computation times of transformers<br>- The 0-guessing "issue" |
| Thursday, 24 July 2025 | Plans for near future (week):\nLouzy, less important tasks:\n  - Documentation\n  - Github\n  - Jetson\nBigger, cooler, more important tasks:\n  - First transformer model\nFor tomorrow just work on the transformer "prototype" | |
| Friday, 25 July 2025 | For tommorow, seeing as I am still in the "hype" of transformers, I'd like to utilize that to slingshot my progress in this project, by further working on the first transformer. | |
| Saturday, 26 July 2025 | I have two more big problems to cater to tomorrow. I know the easiest one to solve is probably switching to nvidia gpu, and setting up the workspace there. The second one I wan't to do is the 0-guessing problem, since it's kinda difficult to solve which is exciting. Investigating all the embeddings and trashy tokenizers from before seems kinda tedious, but also sounds like it should take priority.\n\nAnother thing is I only have one more week of time before the guests arrive, and I'll probably spend less time working.\n\nWith that in mind, this is the timetable for the upcoming week:\nTomorrow: Set-up Workspace in jetson orin nano and run the transformer in there.\nMon-Wed: Finish up work on previous notebooks, try out new embeddings / positional encoders and rewrite old functions like the tokenizer maybe.\nThu-Fri: Tackle the 0-guessing issue. | |
| Sunday, 27 July 2025 | | |
| Monday, 28 July 2025 | | |
| Tuesday, 29 July 2025 | I can finally move on to the next step: implementing embeddings and positional encoders in previous notebooks. | |
| Wednesday, 30 July 2025 | I'm moving on to the next POI: resolving the 0-guessing problem.\n(realistically I'm not sure when I'll start with this: I'm going on holidays to italiya :DDD | |
| Thursday, 31 July 2025 | | |
| Friday, 1 August 2025 | | |
| Saturday, 2 August 2025 | | |
| Sunday, 3 August 2025 | | |
| Monday, 4 August 2025 | | |
| Tuesday, 5 August 2025 | | |
| #################### | | |
| Thursday, 7 August 2025 | | |
| Friday, 8 August 2025 | | |
| Saturday, 9 August 2025 | | |
| Sunday, 10 August 2025 | Next steps:\n  - Train transformer on the gpu with more epochs (like 1000)\n  - Increase dataset size\n  - ->(extract and visualize weights of the attention inside the model) <-- | |
| Monday, 11 August 2025 | To prepare for the meeting on Wednesday I want to reorganize everything, aswell as choose the things I want to present, as well as the questions I'll need to ask.\nI think I can also play around a little more with the transformer. (regardless of the criticism in Reflection)\nWhen playing around: FOCUS MORE ON THE ARCHITECTURE, less the optimizer. | Questions for meeting13.08.25:<br>-General opinion on work??<br>-augmenting the dataset good/bad?<br>-guiding points in the vertrag |
| Tuesday, 12 August 2025 | | |
| Wednesday, 13 August 2025 | Obviously the goal would be to run the same program, with more trials. Apart from that , I'm expecting some other input from mr. Schneider tomorrow.\n\nNext up, I need to maybe run the evaluation with keras-tuner on the transformer model.\nAntoher big thing is I need to explain why the less complex models can outperform the more complicated models. Why do they start with just a tiny MSE? | When finished with github, generate a requirements.txt (and maybe setup.py) |
| Thursday, 14 August 2025 | Edit: new first priority: Make a plan and adjust to new protocolling. | |
| Friday, 15 August 2025 | I need to run the new transformer3.ipynb on the gpu at home, the next big goal is finishing up the work-package of the transformers. | |
| Saturday, 16 August 2025 | Maybe just one more day or weekend of evaluating and playing around with different tranformer models as well as keras-tuner the goal is to finish work with transformers on Sunday. This will conclude the first workload "transformers" | Weekend: finish workload: tranformers. |
| Sunday, 17 August 2025 | On a good track to finish transformers by tomorrow, might have to use another joker to redo the benchmark calculation. I feel like it's easier/better/more efficient to do it now, while I still remember the exact root cause of the problem and not only after the pre-trained LLM work load. | |
| Monday, 18 August 2025 | Next up, I have to pre-Train a LLM for this task. I'm not sure how much success I'll have with this to be honest. I'm a little nervous; I've only worked with a LLM api once. We'll see how it goes. | Schedule check: I finished the transformer workload 2 weeks ahead of schedule. BUT there is a in-built 2 Week buffer into my schedule, so really I barely made it on time. |
| Tuesday, 19 August 2025 | I get the gemini to train properly as soon as possible, but first I need to import the api-key the correct way somehow. (It's my first time working with those) | |
| #################### | Tomorrow, I want to continue work with vertexAI.\nIn the department of the plan, I'm a little behind, if I want to keep the buffer-zone alive, I need to finish fine-tuning LLMs soon. Ich komme jedoch nicht sehr gut voran. | |
| | Tomorrow I have to get the model to be able to evaluate data. This is the next logical step. I also found out that vertex also supports third party | |

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|---|---|
| ##################### | In the department of the plan, I'm a little behind, if I want to keep the buffer-zone alive, I need to finish fine-tuning LLMs soon. Ich komme jedoch nicht sehr gut voran. |
| Thursday, 21 August 2025 | Tomorrow I have to get the model to be able to evaluate data. This is the next logical step. I also found out that vertex also supports third party models, which means I might stay in this environement, even after finishing this model. |
| Friday, 22 August 2025 | Finished the plans for today, and kinda also the requirements for this workload already, but I want to work here a little further. Specifically, I wat to target trying out if simillar models will behave simillar. Highest priority is to try small "nano" SLMs. That's tomorrows goal. If nothing else comes up, I could even conclude this workload here and move on the evaluation after this weekend. |
| Saturday, 23 August 2025 | |
| Sunday, 24 August 2025 | |
| Monday, 25 August 2025 | |
| Tuesday, 26 August 2025 | |
| ##################### | So tomorrow I'll talk with Mr. Schneider and present what I've been doing up to here. The focus of our talk will be the organisation, the plan aswell as the logic, behind my decisions.<br><br>The next step in the project will be to fine-tune gemma3, for this I want to use unsloth and try and do it locally. |
| Thursday, 28 August 2025 | Everything is ready, waiting to run it on the GPU at home. |
| Friday, 29 August 2025 | Since I've got plenty of time left I should try to resolve the issue and train the model on my GPU after all, the other option would be to use a kaggle gpu or something to run the code remotely. Or the last option: run the code without unsloth. Might investigate this option more. |
| Saturday, 30 August 2025 | |
| Sunday, 31 August 2025 | |
| | Yes, so next up I want to finish up the fine-tuning with gemma, once It's done I'll probably think about using another model not made by google. And I'll try to use the same library so that it takes less time to set-up. |

| Date | Notes |
|---|---|
| Monday, 1 September 2025 | Big steps: fine-tune gemma 3 270M in HuggingFace Transformer+accelerate. Fine-tune a model from a different company. |
| Tuesday, 2 September 2025 | Today I didn't have a lot of time and tomorrow I won't have either. This makes it even more important to use the time that I have available well; Tomorrow: first check all libraries, dependencies, compatibility with gpu. Second find a good tutorial and begin writing the notebook. |
| Wednesday, 3 September 2025 | |
| Thursday, 4 September 2025 | Alright, finishing this by this week seems more realistic now. Tomorrow I should first import and format the training data, this will be tricky, but some of the code from the unsloth library can be copied. This will be the min requirement for tmrw. I will have atleast 3h of work tmrw prolly. If anything this is what held me back. |
| Friday, 5 September 2025 | Steps before moving on to the next model: - fix github authentification problem on jetson. - New docker image and container for a cleaner workflow - Evaluate fine-tuned model with test data - Probably will have to adjust the training hyperparameters, because the training loss seems to be high already. |
| Saturday, 6 September 2025 | |
| Sunday, 7 September 2025 | |
| Monday, 8 September 2025 | |
| Tuesday, 9 September 2025 | Integrate validation data into the training process and use their mse as the loss values based on which the programm is optimized. This is first priority. I also still haven't fixed the docker containers. I shouldn't have to pip install all the other libraries each time. |
| Wednesday, 10 September 2025 | I wanna lock in and finish this up as soon as possible. |
| Thursday, 11 September 2025 | Tomorrow in school: Evaluate the model properly. (write the basis/skeleton of the notebook atleast)<br><br>It would be interesting to investigate the exact meanings of those values with which I am provided. They are low-end apparently, but finding out details about them might help in the next workload (evaluation). |
| Friday, 12 September 2025 | |
| Saturday, 13 September 2025 | |
| Sunday, 14 September 2025 | |
| Monday, 15 September 2025 | |
| Tuesday, 16 September 2025 | Next up, I want to reorganize the whole pre-trained-transformers directory. After this I'll be done with the pre-trained workload. Next up is evaluation. |
| Wednesday, 17 September 2025 | |
| Thursday, 18 September 2025 | Now I'm getting the feeling that I'm on the error's tail. I'm getting closer and closer. I wanna finish handling this problem first before mving on to the evaluation. I also wrote a little something to the right, what I wanna do for the evaluation. |
| Friday, 19 September 2025 | |
| Saturday, 20 September 2025 | |
| Sunday, 21 September 2025 | |
| Monday, 22 September 2025 | |

| Date | Notes |
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| Tuesday, 23 September 2025 | |
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| Thursday, 25 September 2025 | |
| Friday, 26 September 2025 | |
| Saturday, 27 September 2025 | |
| Sunday, 28 September 2025 | |
| Monday, 29 September 2025 | |
| Tuesday, 30 September 2025 | I should just stop wasting time with the pre-trained model accuracy discrepancy, it's a waste of time, at the same time it really is bothering me.<br>This week I want to rerun all the necessary code and write all of the performance analytics of the different models into the excel file. This is the goal. |
| Wednesday, 1 October 2025 | Tomorrow I can start properly working on the other note books. Now that I can use github commits again. |
| Thursday, 2 October 2025 | First I want to extract the banchmark aswell as other scores from the remaining attentional RNN models. After that the next step will be to make a FNN model and tune it's hyperparameters using keras-tuner. |
| Friday, 3 October 2025 | GREAT! (The model is still calculating atm) so after it's finished I should probably redesign the excel sheet, insert a couple of graphics and stuff analyse the data a little and after that… well I'll be done with the evaluation workload. |
| Saturday, 4 October 2025 | Niiice, so after revisiting the old repositories I noticed that they are very confusing. I should reorganize them tomorrow, especially the fine-tuning directory. |
| Sunday, 5 October 2025 | Now, that everything is tidied up and because Marton is busy this week, I should probably either do the github organization or begin writing the documentation. Aryan pointed out texlive- an interesting software, which I haven't heard of before. So I'm leaning towards documentation, but we'll see tomorrow. |
| Monday, 6 October 2025 | Tomorrow and the entire second week of the holidays should be dedicated to writing the documentation. Specifically I want to do the methodology first. Only later the findings. |
| Tuesday, 7 October 2025 | Next: write subsection: benchmark. And then probably move on to the RNN part. I actually think I'm like 1/3 done with methodology. |
| Wednesday, 8 October 2025 | Don't know where I got that 1/3 from yesterday. There's still a long way to go, especially in the findings document later.<br>Next section will be transformers: this will be a LOOONG methodology section (I'm anticipating) and then pre-trained transformers will be long toooo………….<br>As you're probably guessing my goal for this last week of holidays isn't exactly to achieve a goal, but to just work on it for as long as possible. Litterally. I'm putting in nightshifts day after day over here.<br>This week is the last one I'm gonna get to properly work on this project, not having to worry about any exams or olympiads. I should use it. And like…. Let's say I set a goal, I reach that goal. What then? Am I gonna stop? Certainly won't be very encouraging if I've already reached my goal.<br>For this reason I'm not setting a goal. I know I'm in a time crunch. JUST WORK. |
| Thursday, 9 October 2025 | Now that methodology is done, I have some weight of my shoulders. I can relax a little ans elegantly move on to the findings (and theory). Tomorrow I should atleast begin working on the findings. |
| Friday, 10 October 2025 | Since I will be going on Monday, and I wont be working in rome:<br>I want to make some major progress, while still in this productive mindspace.<br>Maybe finish the findings should be the goal?<br>Going off the moto: aim for the moon<br><br>Saturday and Sunday work on findings. I actually also wanted to make a couple of additions to methodology, only small ones. |
| Saturday, 11 October 2025 | Only Sunday left, I didn't pack and I wanna go climbing again tomorrow. I'm pretty sure I won't be able to finish tomorrow.<br>My main concern is that the quality will sink because I wanna finish findings.<br><br>I just thought of it; maybe download a spellchecker extension for vsc!<br><br>I mean… fair enough; I wanna be able to show off my github in da cluuuurb |
| Sunday, 12 October 2025 | I'll be gone the next week, and I'll only resurface on Saturday. I'll have the next Saturday and Sunday to finish up the findings, as well as maybe investigate the ti84 calc idea. |
| Monday, 13 October 2025 | |
| Tuesday, 14 October 2025 | |
| Wednesday, 15 October 2025 | |
| Thursday, 16 October 2025 | |
| Friday, 17 October 2025 | |
| Saturday, 18 October 2025 | |
| Sunday, 19 October 2025 | Next, I wanna finish up the findings and methodology, look over them real quick with a spell checker and stuff. So that I can submit my thing to some teachers and they can look over it, give me feedback and stuff. Also, when talking to my buddy Marton about the interview, we mentioned the first weekend, after school starts. This is already in less than a week. I should probably start preparing myself for the interview with a powerpoint aswell as a questionaire. But first the spellchecker, this shouldn't take long. |
| Monday, 20 October 2025 | Okay, I am still working on the documentation, but I think I should really start preparing for the interview, which will be on the 25th. |
| Tuesday, 21 October 2025 | Maybe I wanna finish up my documentation first, and then work on the presentation for marton. It shouldn't be a lot. Most will be improvised anyway. |

Decision: decide what infos belong into methodology and what belongs into findings.
A lot of "theory" doesn't belong in either. I'm writing it in the methodology for now.                    done

Reorganize the attentional-RNNs folder. Somehow.

Should I add a document which is called "predictive calculator" where 2 of the best performing model predict expressions the user can enter?

What would be rreeeeeeeal funny Is if I could upload the code for the model onto my ti84 calculator and run the code from there. I'm not sure if he'll handle it tho.

Big questions for Schneider:
- AI assistance rules check
- Expenditures google cloud 83chf

Things to do when back form rome:
- Find a conclusion (maybe run some more evaluations)
- Finish writing findings
- Spell checking methodology and findings
- TI 84-idea
- Prepare for interview with marton.

Cross compiling

| Date | Notes |
|---|---|
| Wednesday, 22 October 2025 | |
| Thursday, 23 October 2025 | Well now with that gone, that only leaves me with one thing to do for the project: prepare for marton. I really wanna do a good job for him and I am slightly nervous. After the tips my teacher gave me, I still have a lot to do afterall.<br>There is a conflict of interests in my timeschedule:<br>Physics spam, French on Monday and I have to prepare for marton.<br>I think the plan is to just do Marton only tomorrow, practice alittle on Saturday morning and then use the rest of the whole weekend to study.<br>#STUDYWEEKEND |
| Friday, 24 October 2025 | Tomorrow at 11am is the guided discussion with Marton. I'm looking forward to it.<br>After this I won't work on the matura again till Monday or even Tuesday due to exams.<br>Then, I expect to do the todos to the right through out the week. Next exam will be on Friday, so Thursday will be booked for studying again. |
| Saturday, 25 October 2025 | This is the same as yesterday, the todos.<br>I'll go study physics now byeeee |
| Sunday, 26 October 2025 | |
| Monday, 27 October 2025 | Tomorrow, I'll bgin with the todo's either of the 2 on top will do.<br>I expect to just have time for one of them, not both, definitely not. |
| Tuesday, 28 October 2025 | The logical next step is to implement the changes for the findings document. I think I'll also re write some more parts. We'll see what the feedback from Mr.Schneider will be like. I'm assuming I should finish this tomorrow, because on Thursday I'll study for the history exam on Friday. |
| Wednesday, 29 October 2025 | |
| Thursday, 30 October 2025 | |
| Friday, 31 October 2025 | |
| Saturday, 1 November 2025 | |
| Sunday, 2 November 2025 | |
| Monday, 3 November 2025 | Next I wanna write a program where you can ask the model to predict an expression and it will do that. |
| Tuesday, 4 November 2025 | |
| Wednesday, 5 November 2025 | I have some time now to work on the final file where I just make a calculator. I'll have time to do that tomorrow. Depending on how it goes I'll be able to make a more accurate assessment of how much this will take tomorrow. |
| Thursday, 6 November 2025 | On the right I wrote down what I definitely have to do up until submitting the project on Tuesday.<br>Tomorrow: I'm gonna be working from school, so I can work on the documentation or even better, maybe start working on the script for the actual calculator. It's good if I do it from a cpu-tensorflow, for best reproducability. |
| Friday, 7 November 2025 | First priority is fixing the error and recalculating everything, after that I can look into the p-values. On Sunday evening I expect to get the feedback on the documentation. |
| Saturday, 8 November 2025 | First thing tomorrow will be to reread the section I just wrote in methodology, and then re write the findings and conclusion section in findings document, where necessary. I can already think of lots of additional stuff I want to mention there like the long expressions performance of transformers.<br>Then, start working on the todos on the right.<br><br>OHHHH and answer mrs. smits on teams about the p-value. |
| Sunday, 9 November 2025 | Tomorrow: first: -> finish the new stuff for findings. Then implement suggested changes by both parents.<br>I'm done with the code, unless there will be some new changes. From now on, just writing documentation rewriting everything, polishing work and stuff. I'll also need to waste a lot of time doing the github. It should look better I think. |
| Monday, 10 November 2025 | Okay. Tomorrow I think I need to better fulfil that some criteria directly. I marked them down in yellow in the "what did I do" page. Github needs to be made prettier.<br>Once I'm home, I wanna just have to organize all files and prepare for submission. Some final touches will have to be made.<br>Ohhh and once I'm home I'll have to do the process word document better. |
| Tuesday, 11 November 2025 | |

Todo:
- Get feedback on documentation from mom
- Write positional encoder section for findings. Make it better.
- Sift through and clean up FNN1.ipynb
- Make an actual Calculator program with FNN

Final things to do:
- Implement final changes from Schneider.
- Write the process dokument as suggested by schneider
- Make a script to run the best model (FNN2) and be able to actually use it as a calculator
- Better prove the significance of my results.
- Once received: implement changes from parents (Monday.)

I also have to:
- Fix the fnn1 notebook, not opening on github.
- In general have to add more in the findings, schneider said, I could write some more there.
- The github needs to be cleaned up again.