

What did I do?

Saturday, 7 June 2025 12:51

Date	What did I do?	Time in hours
Tuesday, 8 April 2025	started systematic literature review, set up the overleaf document I'll be working on. Thinking about the main question of the review, I've got a general Idea, but still unsure. I was able to narrow down the search on google scholar to 27 results with some keywords.	
Wednesday, 9 April 2025	I've decided I'm going to be doing multiple searches with different keywords or aproaches(sorting by relevancy). I've picked 5 databases which I'll be searching with the keywords. THE NVIDIA GPU IS GONNA ARRIVE TOMORROW!!!	
Thursday, 10 April 2025	The package arrived! I'm still setting up the os system, but so far, so good. The Jetson orin Nano looks amazing.	
Friday, 11 April 2025	I've made a precise workflow for the research part of my lit. review. I also ran into some troubles with the WoS and scopus websites.	
Saturday, 12 April 2025	The Jetson orin nano setup is driving me crazy. When I first installed docker on it, I think I did something wrong, because a lot of errors came up. Neither I, nor the AI's I've asked have any clue on how to fix the issue. I think I might have to start over. On the other front: I decided on just using the 3 websites that did work and I picked out the 15 best sounding titles out of their top 25 results.	
Sunday, 13 April 2025	after having looked through the titles of the different websites, only ACM and ScienceDirect had good papers. Altogether I found 18 promising titles, which I then cut down to 3 papers. Tomorrow I will read those. I had to deviate from the workflow due to the circumstances.	
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Tuesday, 29 April 2025		
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Thursday, 1 May 2025		
Friday, 2 May 2025	Ich habe heute angefangen das erste (auch längste) Papier zu gründlich lesen. Ich habe schon vorher einbisschen daran gelesen, aber nicht gründlich und ohne Notizen/Markierungen.	1.75
Saturday, 3 May 2025	weiter gelesen an der ersten Studie über XAI und dessen Kriterien.	2
Sunday, 4 May 2025		
Monday, 5 May 2025		
Tuesday, 6 May 2025		
Wednesday, 7 May 2025		
Thursday, 8 May 2025	1. Studie weitergelesen und Orte welche ich gerne Zitieren würde markiert. Mit zweiter Studie über den Hawkes-Prozess angefangen. Problem: Ich bin mir nicht sicher ob ich den Hawkes prozess anwenden werde können. Obwohl sie es ein FNN nennen, tönt das Model welches sie in der Studie als Beispiel verwendet haben wie ein CNN.	1.5
Friday, 9 May 2025	1 Stunde die Studie über den Hawkes prozess probiert zu verstehen. Ich glaube aber, dass sie viel zu kompliziert ist. Ich werde einfach die Anwendung wahrscheinlich benutzen. Dannach habe ich an meinen Jetson gearbeitet und ich habe einen Setup guide benutzt, jetzt sollte mein Problem von früher wahrscheinlich behebt sein.	4
Saturday, 10 May 2025	Nvidia Jetson gearbeitet mit docker jetson-containers	4
Sunday, 11 May 2025	Jetson plus minus zum arbeiten gebracht. Ganzen tag sich damit beschäftigt lol.	12
Monday, 12 May 2025		
Tuesday, 13 May 2025		
Wednesday, 14 May 2025		
Thursday, 15 May 2025		
Friday, 16 May 2025	Heute fertig mit Papiere lesen. Ich fange heute am abend/morgen mit dem Latex Dokument an.	1
Saturday, 17 May 2025	Erste 5 seiten des Lieraturberichtds geschrieben.	7
Sunday, 18 May 2025	Section 3 geschrieben, aber nicht sehr hochwertig, es wird sehr wahrscheinlich bei den erklärungen von Konzepten viel korrigiert werden müssen	8
Monday, 19 May 2025	wrote the first half of section 4. again I'm unsure in a lot of places, so there'll be a lot to correct I guess	4
Tuesday, 20 May 2025	didn't have a lot of time today, but I was able to finish section 4	2
Wednesday, 21 May 2025	Turned out my questions were wrong, so I'm gonna have to redo everything, now. Gonna be quite the time crunch	5
Thursday, 22 May 2025	I found some good sources and formulated a vague structure of the new literature review.	2.5

Friday, 23 May 2025	I finished the introduction and first section of the second lit review.	5
Saturday, 24 May 2025	Wrote a page for section 3	2.5
Sunday, 25 May 2025		
Monday, 26 May 2025		
Tuesday, 27 May 2025	I finished section 3 and learned a lot actually. I somewhat have an Idea of what to write about in section 4 now.	2
Wednesday, 28 May 2025	started section 4 but didn't really get anywhere. I need a bit more research. Also my latex document is falling apart. I should probably switch to biblatex. Also I CANNOT work today, I feel like the inner jobless me came out today, I like slept for about 10 - 11h so sleepy through out the day. I recorded, that I worked for only 3h, but in reality it was more like 6h and the rest of the day was procrastinating or distractions.	3
Thursday, 29 May 2025	finished the section 4 part about previously mentioned issues. Did a LOT of research	3.5
Friday, 30 May 2025	I enjoyed the good weather, didn't work tat much a part from reading and organizing all the literature. I wrote down the first approach in how to improve the model for arithmetic tasks. The goofy one with the virtual abacus thingy	3
Saturday, 31 May 2025	I was in the mountains today, so I didn't really do that much. Still I wrote down 4 approaches in total now	2
Sunday, 1 June 2025	FINISHED. Well not totally, but mainly. Dedicated the whole GODDAMN DAY to this review. I just wanna go and watch some insta reels. The takeaways section needs to be improved. But that's a problem OF THE FUTURE ME!!!	8
Monday, 2 June 2025		
Tuesday, 3 June 2025	Finished up the grammatical correction of the lit. review. I also wrote an abstract and other stuff	3.5
Wednesday, 4 June 2025	I've decided to use google colab, for the compatibility with the jupyter notebooks I set up for the nvidia jetson gpu earlier. I fiddled around a bit and got my first Prototype running.	5
Thursday, 5 June 2025	I added bootstrapping to the model. I drew a graph of expressions not in training data, showing the accuracy. This shows, that the Programm, indeed is learning something atleast. Need to do interpretation of it.	5
Friday, 6 June 2025	I made test data for numbers outside the training range. Predicted results for that test data with the bootstrapped model. I drew a outside of training range graph. Refined the previous tokenizer function.	3.5
Saturday, 7 June 2025	I implemented test data with more terms == longer expressions. Generalized the tokenizer function, so it works with longer expressions too. Collected bootstrapped predictions. And drew a graph showing number of terms vs deviation, with a trendline.	4
Sunday, 8 June 2025	I evaluated the longer expressions - test data, and drew a graph for the correllation between length of expression and MAE. I also did a lot of debugging. I set about defining the a benchmark for models with different architectures. (the 3 different MSE proportionally to a base performance.) For this benchmark I had to implement pairs and stuff to reorganize the prediction reusults.	5.5
Monday, 9 June 2025	Spent my day programming the generation of different models with different architectures. I think I succeeded, although I didn't really properly evaluate my results yet. The time it takes to train different models (36) is roughly an hour, this will make it difficult for me to work in school in the near future. P.S. The padding with 0.5 worked way better, I implemented it.	7
Tuesday, 10 June 2025	At school I worked on my code, found some errors and changed them (neuron_steps), I couldn't squeeze in the time for a calculation today. I met up with my dad, he corrected my text for grammatical errors (though not all of I implemented), aswell as gave me an interesting article which I ended up citing additionally to prove a point in section 2. I asked Smits.	1
Wednesday, 11 June 2025	I re-ran my calculations with an additional calculation of a benchmark for the models. I have a couple of good looking graphics for the presentation now. The cherry on top being the heatmap. At school I corrected my literature study and added some comments where needed. After some final polishing up, I'm ready to submit my results.	4
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Reflection

Saturday, 7 June 2025 12:52

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Saturday, 7 June 2025	<p>Retrospect, I should've checked out how saving files works in there, since it deleted a big portion of my notebook once, this wasted some time.</p> <p>In Retrospect: I could've skipped this step or maybe defined the training data differently. But it's fine I guess.</p> <p>In Retrospect: I should probably pay better care to organization of my notebook. It's pretty messy right now.</p>
Sunday, 8 June 2025	<p>In Retrospect: Firstly, the tokenizer function is hand made by me, so it wasn't generalized for longer expressions. I fixed it now, but it still looks sketchy, I wouldn't be surprised if I'll have to change it later. Another thing to keep in mind is the float I used for padding right now is 0. But I didn't see any change for the normal length expressions with or without padding.</p>
Monday, 9 June 2025	<p>Now that I am rethinking my previous steps, the code I have is very disorganized. The variables are named not very appropriately at times, additionally my gut feeling is telling me that I use too few functions. Additionally, while working on the benchmark, it struck me, that I probably should have been using MSE and not MAE because it is more commonly used. On the other hand, I feel like MAE is just more graspable for me.</p>
Tuesday, 10 June 2025	<p>This notebook is getting very messy and long. I should also consider other notebooks, like kaggle for better free GPUs, because the one from google didn't help at all. I mean maybe I was using it wrong, but it didn't improve the computational power. This might be a good point to try out running this on the nvidia jetson orin nano. But later after the whole zwischen präsentationen shazam.</p>
Wednesday, 11 June 2025	
Thursday, 12 June 2025	<p>Fixed error in early_stopping. And I should've used bigger steps for neurons. NEED TO CORRECT BEFORE NEXT RUN</p>
Friday, 13 June 2025	<p>Not much to say, because I didn't work a lot today. Some of the grammar issues were kinda trivial I guess. I was</p>
Saturday, 14 June 2025	<p>Surprised I hadn't noticed them myself.</p>
Sunday, 15 June 2025	<p>Nothing much to say today. I'm satisfied with my semi-product.</p>
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What's next?

Saturday, 7 June 2025

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Friday, 6 June 2025	Upcoming: I'll have some time. I want to refine my model and define a clear benchmark.
Saturday, 7 June 2025	Upcoming: some better graphs. Outside of training range graph. Analysing of data.
Sunday, 8 June 2025	Upcoming: WEEKEND: Lit. Review final refinement. Arbeitsprotokoll redo in outlook or something. Fun: analysis of deviation of longer expressions in range.
Monday, 9 June 2025	Upcoming: I'm proly 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.
Tuesday, 10 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 tomorrow.
Wednesday, 11 June 2025	Still no response. I'm meeting up with my dad tomorrow, because he has grammarly. Tomorrow and the next day are probably just polish up at this point. I would like to finish up the examination of different models and submitting this notebook. I NEED TO ASK J.SMITH WHICH FORMAT SHE PREFERS
Thursday, 12 June 2025	For tomorrow I need to finish up correcting the literature study, as well as reach an end in the FNN notebook.
Friday, 13 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
Saturday, 14 June 2025	submitting (with or without code) I might have to code a little further: I

Thursday, 12 June 2025	No more stress for now. Coming up next is a presentation. I should get to
Friday, 13 June 2025	working on that as soon as possible (bcs of exams). Depending on what I'll be
Saturday, 14 June 2025	submitting (with or without code) I might have to code a little further: I
Sunday, 15 June 2025	could look at the effects of regularization, drop out or different batchsizes.
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