

Weekly Work Log

Personal Information

Billal MOKHTARI

Week Selection

Week Starting Date: Week: Sep 29 - Oct 05, 2025

Team & Project Selection

Team: Technical Team

Project: KG

Daily Time Logging

Monday

Time Worked: Hours: 1h Minutes: 30m

Work Description & Achievements:

- Coded a class using the Neo4j API to interact easily with Neo4j using code.
- Look for transforming structured data into a graph <https://neo4j.com/docs/getting-started/appendix/tutorials/guide-import-relational-and-etl/>

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Tuesday

Time Worked: Hours: 3h Minutes: 30m

Work Description & Achievements:

- Coded a first version of the function that transforms the latex code into functional representation using SymPy. It still suffers from buggs.

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Wednesday

Time Worked: Hours: 1h Minutes: 30m

Work Description & Achievements:

- Updated the global schema giving more details for the figure extraction
- Coded a method that loads a CSV file and represent it as a graph in Neo4j.

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Thursday

Time Worked: Hours: 1h Minutes: 0m

Work Description & Achievements:

- Check for libraries transforming the latex into MathML
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Friday

Time Worked: Hours: 4h Minutes: 30m

Work Description & Achievements:

- Implement a latex validator block.
- Implemented a latex corrector using DSPy: if the latex code is syntacticaly incorrect, the model (**qwen2.5-coder:latest**) will correct it
- Implemented a CLI tool that takes the latex code as input and the output file. It creates MML file containing the MathML version of the formula.
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Saturday

Time Worked: Hours: 0h Minutes: 0m

Work Description & Achievements:

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Sunday

Time Worked: Hours: 0h Minutes: 0m

Work Description & Achievements:

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Weekly Meeting Attendance

- Project Meeting (Mondays) (30 minutes)
- Project Progress (Thursdays) (30 minutes)

Weekly Total Hours: 13h

