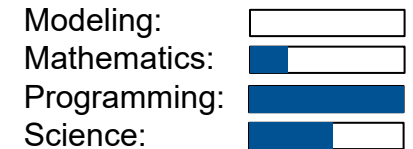


# Construction Document Parser for LLM-based AI assistants.

## Project Characteristics



### Description:

This student project aims to develop specialised parsers that transform construction industry documentation (GANTT diagrams, technical drawings and financial documents) into serialised, LLM-compatible formats.

The system will bridge the gap between specialised construction documents and Large Language Models (LLMs), enabling AI-based analysis and interaction with industry-specific documentation.

### Guidelines:

- Study existing generic parsers and document formatting techniques to understand optimal methods for providing relevant context to LLMs.
- Develop three specialised parsers targeting different document types: GANTT diagrams, floor plans and sectional views, and financial data.
- Deploy the parsers as REST API endpoints
- Create a standalone web application with persistent storage capabilities.
- Optional: Develop an LLM-based chat assistant using these parsers to demonstrate practical applications.