

# Project Status Report

*What is finished from the Part B planned deliverable list?*

From the planned deliverable list, I completed all of the Part B tasks in the Part A report:

Literature Review & Problem Definition, Initial Data Preprocessing & Cleaning, Tensor Mapping & Fusion Strategy Proposal, Baseline Model Implementation, Preliminary Results Comparing, Fusion vs. Concatenation, and Draft Report on Initial Findings. That said, I would like to complete a more thorough literature review and read more research papers similar to this project. I drafted a basic framework overview to understand the processes and data flow.

*What is left to be done from the planned deliverables?*

The tasks that still need to be done are the following, Optimized Model with Regularization, Final Model Training & Evaluation Metrics, Comparison with Benchmarks (Accuracy, Inference Time, Model Size), Experimental Analysis and Performance Discussion, Complete Research Paper or Technical Report, Final Presentation/Video with Key Findings, and Code & Documentation for Reproducibility. One of the challenges was condensing the project into a five-minute presentation since the project itself was a bit lengthy. Another thing that I need to consider is the format and platform on which I would like to write the paper or report. Finally, I also want to consider the different models I would like to compare this model against. Overall, I believe this project's completion is at a good rate, but there is still room for improvement and tasks to be completed.