

<div><div>Purpose</div><div>What is the intent of this project? Why are we doing this project?</div><div>We're doing this project to test if we can improve upon an open-source LLM's performance</div></div>	<div><div>Scope</div><div>What does this project contain? What does this project not contain?</div><div>The scope of this project is to do a deep-dive into natural language processing, and the challenges within this field. It does not include inventing a new method for creating LLMs.</div></div>	<div><div>Success Criteria</div><div>What do we need to achieve in order for the project to be successful? How can the Success Criteria be measured?</div><div>The project is deemed a success if our final distillation shows an improvement, or atleast the same level compared to the base model.</div></div>
<div><div>Milestones</div><div>When will we start the project and when is the final deadline ? What are the key milestones and when will they occur? How can the milestones be measured?</div><div><div><div><div><div></div><div>1st handin: Project description Project Canvas Gantt Chart</div></div><div><div>1st MVP: Basic model Basic evaluation</div></div><div><div>Expanded model with larger ensemble</div></div><div><div>Expanded model with larger LLM</div></div><div><div>Finishing the report</div></div></div></div><div><div>Actions</div><div>Which activities need to be executed in order to reach a certain milestone?</div><div><div><div><div></div><div>- Cooperation agreement - Finding research questions - Problem definition - Get approval from supervisors</div></div><div><div>- Research LLM structure - PyTorch knowledge - Dataset analysis and setup - Coding/1st testing - Continue report writing, focus on theoretical part</div></div><div><div>- Evaluation of current models - Discuss results/outcomes with supervisor - Continue report writing, focus on results and method. - Expand code for more robust testing</div></div><div><div>- Further evaluations on models - Feedback from supervisor</div></div><div><div>- Rewrite underwhelming parts of the report - Make sure there is good continuity through-out the report - More feedback from supervisor</div></div></div></div><div><div>Outcome</div><div>What is the end result?</div><div><div>- A book - A website - An event</div><div>A report, Functioning model, A presentation</div></div></div></div></div></div>		
<div><div>Team</div><div>Who are the team members? What are their roles in the project?</div><div>William Krøyer Stentzer Mads Bjørke Vejgåk</div></div>	<div><div>Stakeholders</div><div>Who has an interest in the success of the project? In what way are they involved in the project?</div><div>Supervisors: - Michael Riis Andersen - Morten Mørup</div></div>	<div><div>Users</div><div>Who will benefit from the outcome of the project?</div><div>- Researchers in NLP - ML engineers - AI model engineers - Academics studying NLP techniques</div></div>
<div><div>Resources</div><div>What resources do we need in the project? - Physical (office, building, server) - Financial (money) - Human (time, knowledge) - Computational power - Experts, such as our supervisors - Online assistance, such as LLMs (ChatGPT) and documentation</div></div>	<div><div>Constraints</div><div>What are the known limitations of the project? - Physical (office, building, server) - Financial (money) - Human (time, knowledge, politics) - Computational complexity - Limited time - Current lack of knowledge</div></div>	<div><div>Risks</div><div>Which risks may occur during the project? How do we treat these risks?</div><div>- Model Performance Degradation: To prevent this, frequent testing is required during model distillation - Overfitting, the model could perform bad on the OOD data: Test on diverse datasets, and cross-validation are possible solutions for this</div></div>