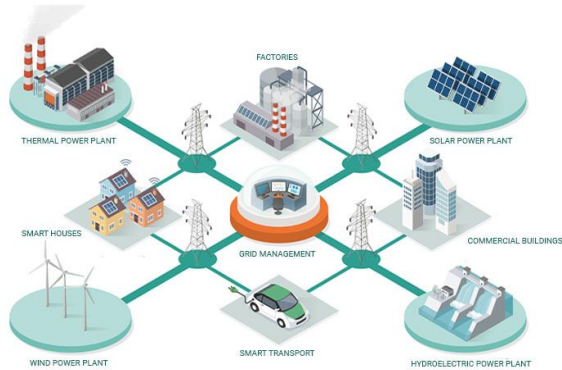# Project Planning

SDMay25-42: Ian Bussan, Aditi Nachnani,
Luke Eitzmann, Ian Louis, Scott Rininger

Project Overview
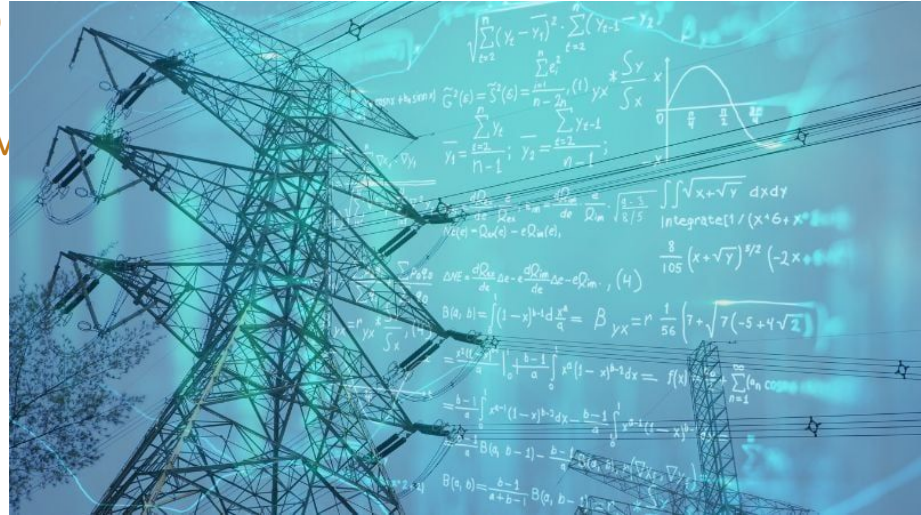

AI and **IoT-Driven** Smart Grid Technologies for Smart Energy Management
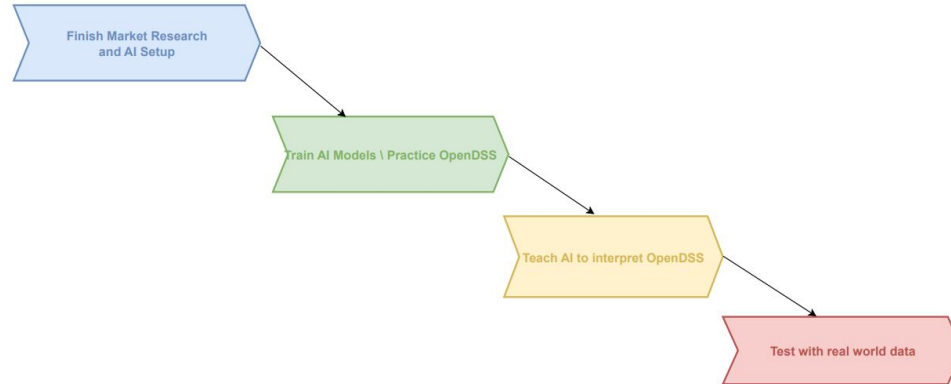
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Waterfall Project management style and justifications

- Allows us to have a big picture goal of how we will complete our project
- Prevents us from being caught up in the small details instead of the big picture

Task Decomposition

#	Task		August	September	October	November	December	
1	Finish Market Research		▭					
2	Practice OpenDss		▭					
3	Train AI Models					▭		
4	Test with real world data						▭	
5	Implement Models with Application						▭	

Milestones

Milestone 1: Create a prototype to fetch external data for GridAI

Milestone 2: Create an AI model

- Use DSS files as context

Milestone 3: Fine tuned the model

- Gather a training and testing dataset to ensure the model performs well

Milestone 4: Integration with GridAI

- Utilize the data from GridAI to make our model from efficient

Milestone 5: A successful faculty review panel

Key Risks and Risk Mitigations

Risks	Risk Mitigation
- Data Privacy and Security - System Reliability - Integration Challenges	- Limit exposure sensitive data to 3rd party components - Fine Tune and establish testing protocols for AI Models - Conductor thorough assessments of Grid AI before implementation

Conclusions

- We will use our waterfall and gantt charts to make sure we are on track to complete our project
- We will use our milestones to make sure we are progressing towards the end goal of our project
- We will insure we are aware of the potential risks of our project and make sure we are mitigating them