

Master To-Do List

Phase 1: Setup & Organization

- ☒ Set up GitHub repository for file sharing and version control.
 - ☒ Confirm communication channels (WeChat, WhatsApp).
 - ☒ Schedule weekly meetings (Mondays 3–6 PM + extra when needed).
 - Assign clear responsibilities for research areas:
 - Hardware → **Lance & Ryuichi**
 - Behavioral AI → **Melvin & Roderick**
 - Networks → **Shawn**
 - Design → **Keke**
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Phase 2: Research & Data Collection

- **Hardware (Lance & Ryuichi):**
 - Study hardware fundamentals (CPU, GPU, memory, storage, sensors).
 - Collect examples of hardware supporting AI systems (e.g., GPUs for deep learning, TPUs, edge devices).
 - Research future hardware trends (neuromorphic chips, quantum hardware).
- **Behavioral AI (Melvin & Roderick):**
 - Define behavioral AI and its applications.
 - Study case studies (autonomous driving, recommendation systems, adaptive robotics).

- Research psychological/behavioral models integrated into AI.
 - **Networks (Shawn):**
 - Review basics of computer networks and their role in AI (cloud computing, data transfer).
 - Explore edge computing vs. centralized networks.
 - Research how network speed and reliability affect AI performance.
 - **Design (Keke):**
 - Draft visual style guidelines for PPT and study guide.
 - Collect diagrams, charts, and infographics to support explanations.
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Phase 3: Analysis & Synthesis

- Compare notes from different research areas to highlight connections between hardware, behavioral AI, and networks.
 - Identify overlaps (e.g., hardware enabling networks, networks enabling AI behavior modeling).
 - Review past 2024 student projects → evaluate what worked, what didn't, and how to improve.
 - Brainstorm as a team to decide the final structure of the study guide and PPT.
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Phase 4: Content Creation

- **Study Guide:**
 - Draft outline (topics, subtopics, learning outcomes).
 - Write content collaboratively.
 - Add quizzes at the end of each section to test understanding.

- Create a mindmap for all the topics.
 - **Presentation (PPT):**
 - Create slides summarizing research.
 - Use visuals (diagrams, charts, infographics).
 - Ensure slides are concise, engaging, and easy to follow.
 - **Additional Learning Materials:**
 - Record short explanation videos for complex concepts.
 - Design practice quizzes and interactive exercises.
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Phase 5: Review & Finalization

- Group-wide peer review of PPT and study guide.
 - QA testing by Sean (check clarity, usefulness, engagement).
 - Design polishing by Keke (consistent visuals and formatting).
 - Final adjustments based on group feedback.
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Phase 6: Delivery

- Submit PPT and study guide.
- Present findings to the class.
- Share extra resources (quizzes, videos) with classmates for learning support.