

Here is a bullet-point summary of the key topics discussed in the session, organized for reader comprehension.



AI Tool Demonstrations

- **Google Gemini (Image & Video):**
 - Speaker 1 (James) demonstrated restoring a 1930s photo of his mother by iteratively asking Gemini to remove cracks and dust marks ¹.
 - He then used the restored image to generate a 7-second animated video, which he found "amazing" ².
- **Google Notebook LM (Document Analysis):**
 - James introduced Notebook LM as a tool to upload and analyze large sets of personal documents ³³³³.
 - He demonstrated by querying his own notebook of 156 Google Docs ⁴⁴⁴⁴ to successfully extract and list specific math formulas ⁵.
 - He also showed the "mind map" feature, which visualizes the connections within the uploaded documents ⁶⁶⁶⁶.
- **Claude by Anthropic (Text & Document Generation):**
 - James demonstrated the paid version of Claude, noting its focus on safety ⁷ and its limitation of not producing standard images (though it can make vector graphics) ⁸⁸⁸⁸.
 - He uploaded two large, complex PDFs: the OECD AI policy (150 pages) and the EU AI regulation (400 pages) ⁹.
 - He then asked Claude to generate 10 bullet points, and it created a full PowerPoint-style presentation, complete with speaker notes, which he could download ¹⁰¹⁰¹⁰¹⁰¹⁰¹⁰¹⁰¹⁰.



AI Limitations & Job Market Impact

- **AI Hallucinations and Errors:**
 - James discussed a "taxonomy of hallucinations" ¹¹, highlighting errors he has personally

seen, such as inaccurate legal citations¹²¹²¹², flawed code generation¹³, and formatting failures¹⁴.

- He also argued that humans "hallucinate" far more, estimating AI errors are down to 2-3%

- **Video: Robert Reich on AI & Jobs:**

- The class watched a video where Robert Reich categorized jobs into three types: "making" (already automated), "thinking" (most at risk), and "caring" (safest, as it requires human empathy)¹⁶¹⁶¹⁶¹⁶¹⁶¹⁶¹⁶¹⁶¹⁶¹⁶¹⁶¹⁶¹⁶¹⁶.
- Reich advised that "versatility" and "adaptability" are now the most critical skills¹⁷¹⁷¹⁷¹⁷ and suggested Universal Basic Income (UBI) may become a necessary policy¹⁸.

- **Group Discussion on Jobs & Productivity:**

- One member (Elena) argued for AI as an augmentation tool, sharing an example of a friend in public relations who uses ChatGPT to summarize large packets, making him "more productive"¹⁹¹⁹¹⁹¹⁹.
- Another member (Ty) shared that his daughter, a psychiatric nurse practitioner, uses AI to summarize clinical notes, reducing 45 minutes of work to 5²⁰²⁰²⁰²⁰.
- However, Ty also challenged Reich's "caring" job safety net, noting a "proclivity" for people to turn to ChatGPT for psychotherapy²¹.
- A member named Carl raised the concern of "AI Slop," worrying that over-reliance on AI summaries (like "Cliff Notes versions") will cause information quality to degrade
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? Final Q&A and Key Concepts

- **Prompting Specificity:**

- A member (Karen) asked why James specified "10 bullet points" ²³.
- James explained it was an arbitrary number based on his own cognitive limits ²⁴, using the 7-digit phone number as an analogy for human memory capacity ²⁵.
- He noted that when he doesn't specify a number, AIs often return only 3-4 points²⁶.

- **Advanced Physics & AI Art:**

- James mentioned his personal interest in using AI to generate images of complex physics concepts, such as a black hole distorting space-time²⁷, the "magnetosphere of Earth"²⁸, and "Hawking emanations" from a black hole²⁹²⁹²⁹²⁹.