

Using AI Tools for Your Preparation

The INAI/OAI contests tests both your understanding of AI concepts ("how it works") and your ability to code and apply them ("how to use it"). AI assistants and online materials can be super helpful for mastering both.

Your AI Study Buddies: [ChatGPT](#), [Gemini](#), [Claude](#) & [NotebookLM](#)

Think of these AI tools as assistants that can help you learn faster and smarter:

- **Explain Complex Ideas:** Stuck on a concept from the syllabus, like Backpropagation, Gradient Boosting, or the Transformer Attention Mechanism? Ask LLM chat assistants to explain it in simple terms, give you analogies, or break it down step-by-step.
- **Summarize Long Texts:** Got a dense research paper or a long web article related to topics like Computer Vision or NLP? Paste the text or link into LLM chat assistants and ask for a summary of the key points.
- **Debug Your Code:** Wrestling with Python code for K-Nearest Neighbors or trying to implement something in PyTorch? You can ask LLM chat assistants to help you spot errors or explain why a piece of code isn't working.
- **Generate Practice Questions:** Want to test your knowledge on topics like Evaluation Metrics or Activation Functions? Ask LLM chat assistants to create practice questions or coding challenges based on the syllabus.
- **Explore Problem-Solving:** Looking at [past problems](#)? You can discuss different approaches or ask LLM chat assistants to explain concepts within those problems. Make it a point to first solve the problem before you seek help from LLM Assistants to hone your problem solving skills. *Remember: The goal is to understand and learn, not just get the answer!*
- **Deep Dive into Your Notes with NotebookLM:** Google's **NotebookLM** is a bit different – it's designed specifically for studying *your* materials. You can upload your course notes, PDFs (like the syllabus!), Google Docs, or relevant web links. NotebookLM then becomes an expert *only* on the information you gave it. You can:
 - Ask it specific questions about your uploaded content.
 - Get summaries based *only* on your sources.
 - Have it create study guides or quizzes from your notes.
 - Even turn your study materials into an audio podcast to listen to!

Important Tip: AI tools are awesome, but not perfect! [Always double-check the information they give you..](#) Use reliable sources like textbooks, official documentation, or recommended courses to confirm accuracy. [Focus on truly understanding the concepts, not just copying AI outputs.](#)