Hello All,

I'm very excited about this class. I am starting my master’s degree after 7 years. This is my first coding class. I will be reaching out to TA to understand the code format and more.

Why should a master’s degree Class go beyond teaching code/programming?

Master’s Degree classes should go beyond teaching code/programming. Master’s programs should aim to develop not only technical skills but also a broader skill set that includes critical thinking, problem-solving, communication, teamwork, and adaptability. Master's programs should emphasize project management and collaboration skills. Professionals in the field often work on complex projects that require effective coordination and teamwork.

What does "going beyond" mean in practice?

Going Beyond in master's degree class means extending the focus beyond the traditional aspects of programming. Have a skill set integrating project and real-work scenarios that reunite the application of not only technical skills but more critical thinking, problem-solving, and creativity. Instill a mindset of lifelong learning by encouraging students to explore modern technologies, attend workshops, and pursue professional development opportunities. Provide access to various learning resources, including online courses, conferences, and community events.

What are the current shortcomings of AI Code assistance tools?

There are so many AI code assistance tools out there in the market. AI started to boom after Elon Musk's announcement of purchasing the CHATGPT. It's more important when shortcomings could be for AI where it doesn’t understand the context of code, it understands something and spits out different code.

How will AI Code assistance tools probably look like in 5 to 10 years?

AI codes are likely to become more adept at understanding the context of a coding project, considering project-specific requirements, coding conventions, and developer intent. AI code assistance tools may develop improved natural language understanding capabilities, allowing developers to express their intentions in a more natural and human-like manner. Future AI tools might be seamlessly integrated into existing development workflows, assisting at various stages of the software development life cycle.

Why do knowing full-stack development, workflows, and app development strategies still matter in the AI era?

When it comes to coding, I am new to it. On many forms coding easy it might be for those who have been doing it for a long time. Also, know AI getting advanced and how it can help improve and help write code. Learning how to write code and copy/Paste will not get you anywhere.

I completely agree with your insights into the role of a master’s degree program extending beyond the conventional teaching of code and programming. Leveraging existing technologies is undoubtedly crucial, but as you rightly point out, mastery lies in knowing how to apply these solutions with critical thinking and collaborative problem-solving skills.

The integration of AI into our systems is a prime example of going beyond the basics. It is not just about using AI for coding but understanding how to effectively incorporate it to optimize processes. Your observation regarding the shortcomings of AI code assistance tools, as seen in the video, highlights the importance of human interaction and validation. No system is flawless, and human oversight remains indispensable for ensuring the intended outcomes.