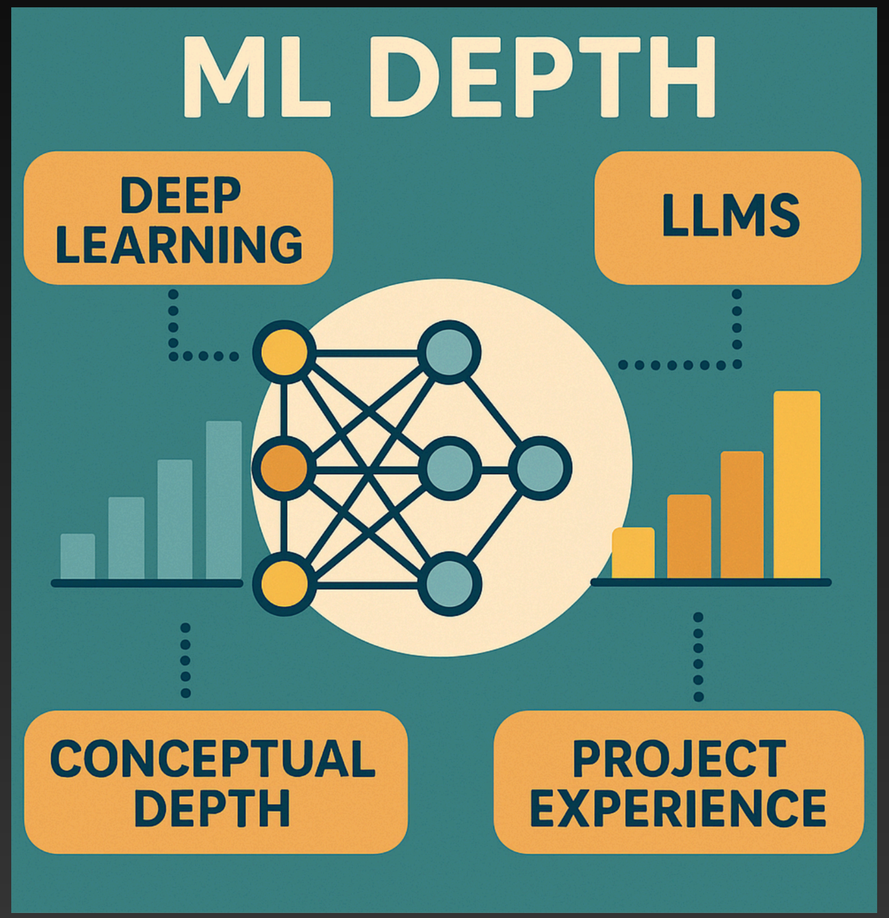
EE P 596
ML Interviewing Master Class | DAY 4

Introduction | ML Design | Guest Lecture | Mock Interviews

Dr. Karthik Mohan, May 4th 2025 | Spring Quarter course | PMP, ECE, UW

Last Class | ML Depth

Assesses which areas of ML/AI do you have a “deep” understanding of. This could be a project from your resume. It could also be specific topics that you have indicated you have proficiency on.



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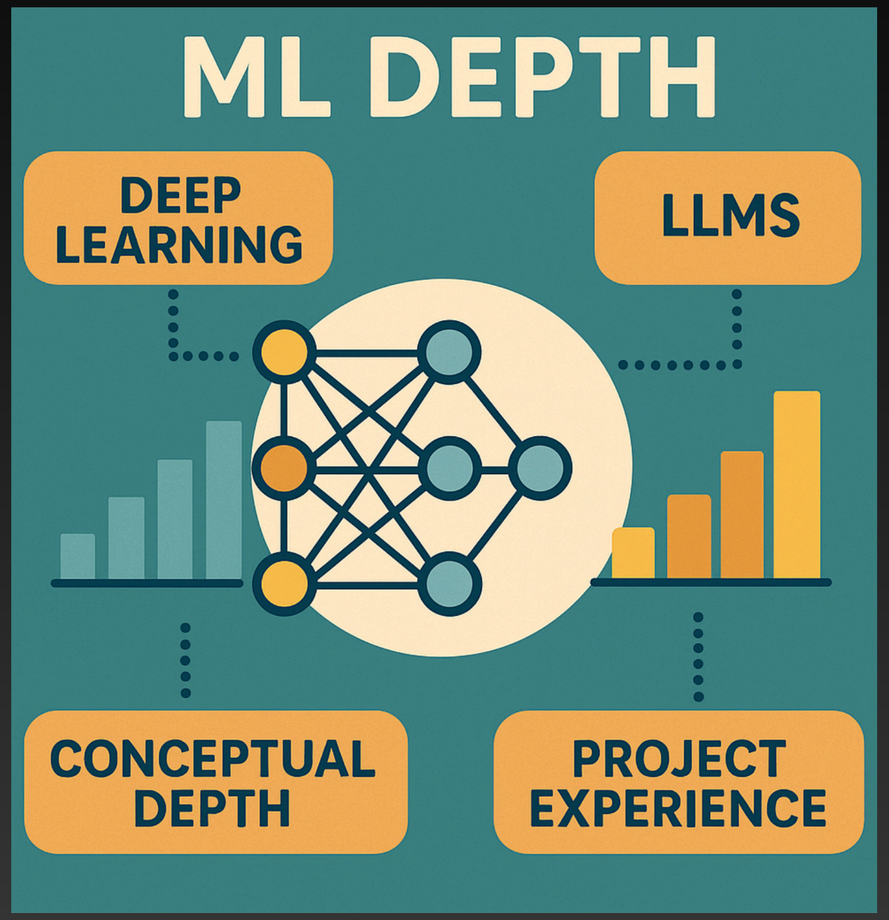
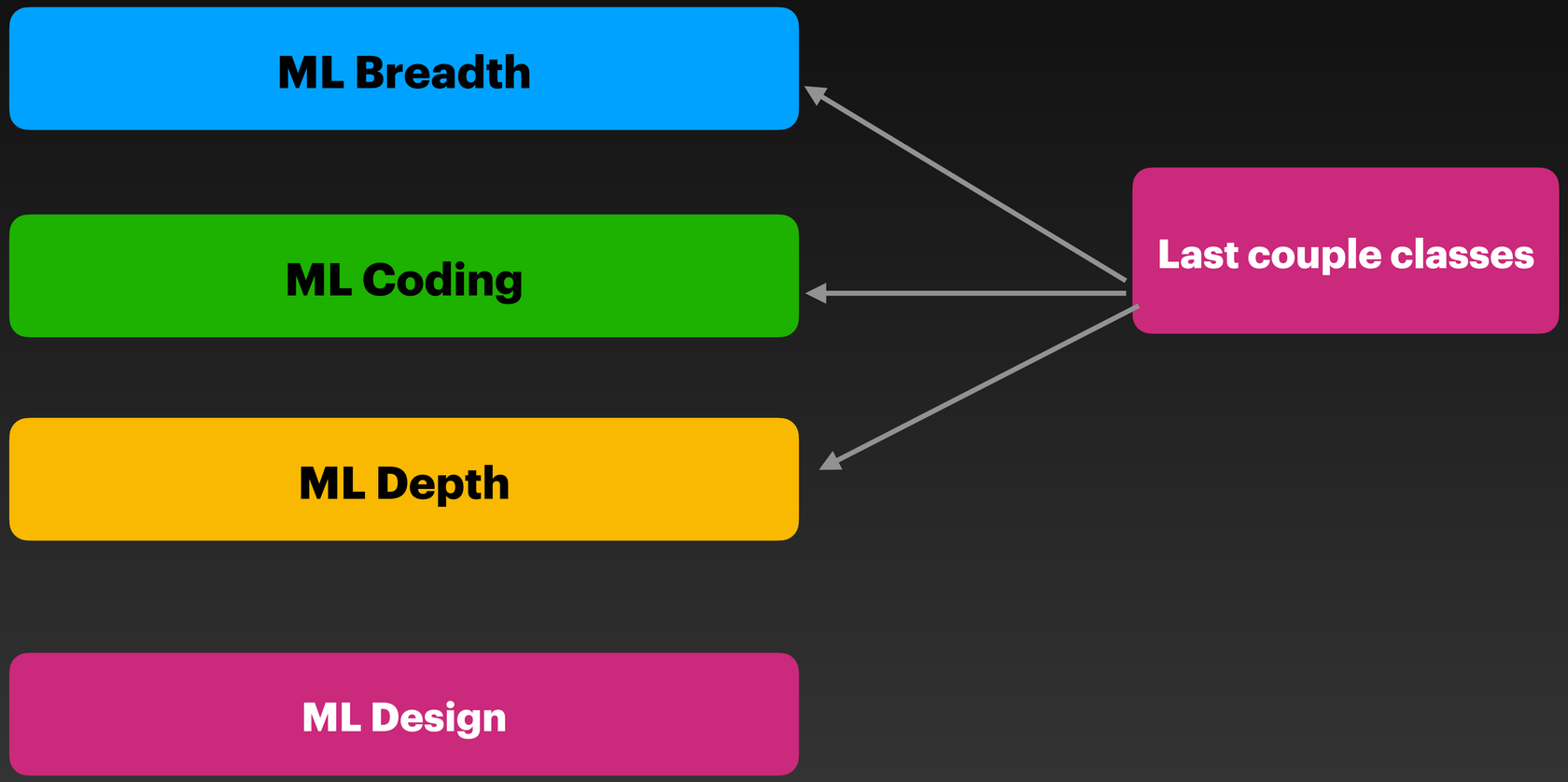
We covered ML Depth Topics, Live Interviews, Mock ML Depth, Mock Behavioral Round



ML Interview Types Summary



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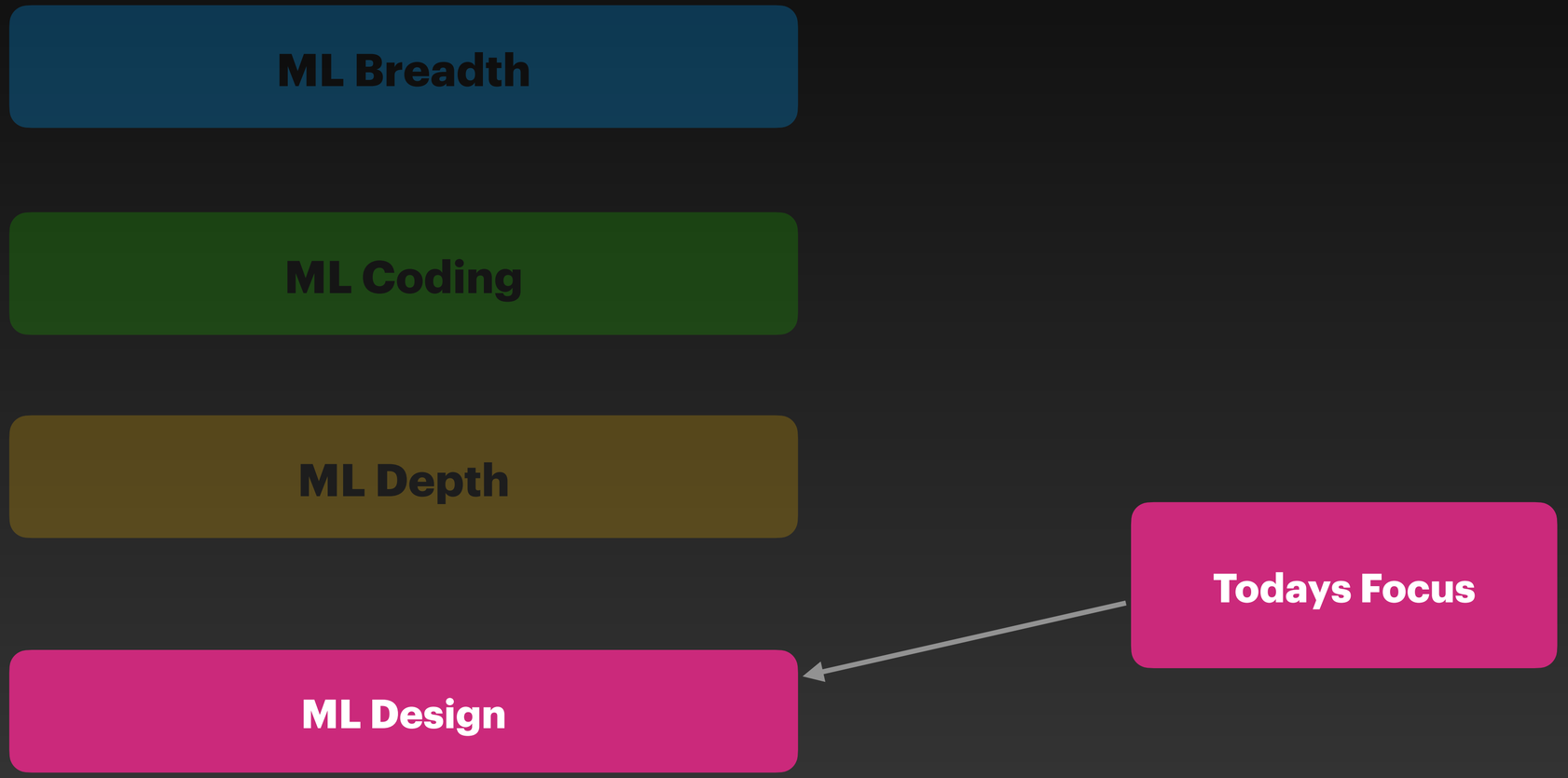

ML Design

ML Design Interviews assess your ability to problem solve and design a solution with different components for a practical business problem.

Addressing Practical Business considerations is key

Can you figure out what the right trade-off are to make on performance, latency, sclability, cost and factor that into the design?

Can you collaborate with your interviewer in taking suggestions and adapting the solution accordingly?

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Asking about and subsequently addressing Practical Business considerations is key

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Guest Speaker

Let’s welcome Vijay Gaikwad, Tech Lead Engineer at Meta to talk about his personal story, interviewing experience and ML design

ML Design Mock Interview (30 minutes)

1. Sit in groups of 2
2. Pick person A and person B in your group
3. Person A can set a timer for 15 minutes and can probe on ML Design
4. Repeat the same by Person B
5. Interviewers can probe deeper with follow up questions - “Can you tell me more about this component of the design?”
6. Each “interviewer” evaluates

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Questions Flow (also ask follow ups)

1. How would you design a chatbot system to be a customer service assistant that can take calls, take actions and suggest follow ups
2. How do you ensure your chatbot doesn’t go off script?
3. How do you make sure your chatbot doesn’t promise something to the customer that it can deliver? E.g. let me throw in a free ticket for inconvenience caused at the airport?
4. How do you evaluate your chatbot for good customer service performance?
5. Tell me about some concrete performance metrics?
6. You want to invest in a GPT-4o model as an upgrade from Llama3-1b model. How do you justify increased cost to business?

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Evaluate for clarity, good examples that fit the question, how they navigated a situation, clear communication and body language (scale of 1-5)

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Let’s discuss Takeaways

This is the first-time ever offering and many more to come!

So share what worked for you, your takeaways and also share any constructive feedback you have!

All the very best!

All the very best with your future endeavors. I hope this class has been and will be a stepping stone for your career in AI/ML. Best wishes!!