

The Hong Kong University of Science and Technology
MSc Program in Data-Driven Modeling
PHYS 6771 Data-Driven Modeling Seminars and Tutorials
Seminar Report Form

Note:

1. Each seminar summary: > 100 words.
2. You can attach your notes taken in the seminar with equivalent word limits (handwritten notes are fine), but do not copy from any existing materials.
3. After each seminar, please submit your form to mscddm@ust.hk or the Program Office at Room 4452.

Section I. Personal Particulars

Student's Name:	ZHANG Mingtao	Student ID:	20989977
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Session II. Seminar Report

Date:	1 December 2023(Friday)	Time:	3:00 – 4:00 pm HKT
Title:	From Academia to Data Science Industry – A Physicist Perspective		
Speaker:	Dr. Chris CHAN, Lead Data Scientist, Consultant, and Manager (Specialist Master), Deloitte US		
Summary: (>100 words)	<p>Many different ways to categorize between AI, DS, ML and more. The differentiation becomes important when defining roles of a job.</p> <p>AI / DS / ML applications: Computer vision Natural language processing Time series forecast Pattern recognition Information retrieval Automation & optimization Recommender</p> <p>Lifecycle of an ML Project: Scope project Collect data Train model Deploy in production</p> <p>Generative AI (GenAI) is a new AI trend to learn data patterns and structures and then generate new outputs that are not seen in the training data.</p>		

	<p>Applicable for different data modalities:</p> <p>Text (most applications)</p> <p>Code</p> <p>Images</p> <p>Audios</p> <p>Videos</p> <p>3D data</p> <p>A foundation model is a large neural network model trained on a vast quantity of data that is task agnostic.</p> <p>A large language model is an example trained from massive amounts of text data and can be further adapted for different downstream tasks.</p> <p>ChatGPT - Chat Generative Pre-trained Transformer, is a popular LLM (by OpenAI) that allows users to interact in a conversational way.</p>
<p>The question you/your classmate asked that inspired you the most in the seminar:</p> <ol style="list-style-type: none"> 1. How do you think of the AI winter? 2. DS Salary? <p>Speaker's answer to the above question:</p> <ol style="list-style-type: none"> 1. I don't think AI will go down, the field has been extended for many years, and this topic is still fancy. People will be keeping working on it in the future. 2. It depends on country and work aspects. 	
<p>Attachments: ____ pages (if any, for example, handwritten summaries)</p>	

Session III. For the Program Office of MSc in Data-Driven Modeling Use Only

Submission Date:			
Verified by:		Verified date:	