

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:

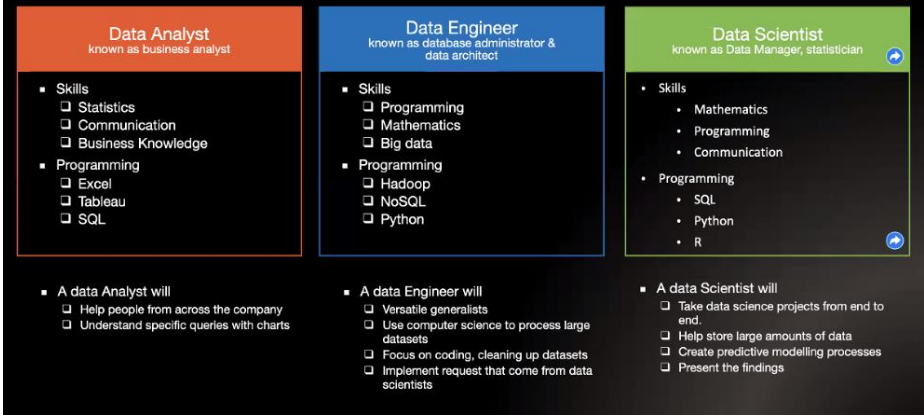
1. Each seminar summary: > 100 words.
2. You can attach your notes taken in the seminar with equivalent word limits (handwritten notes are fine), but do not copy from any existing materials.
3. After each seminar, please submit your form to mscddm@ust.hk or the Program Office at Room 4452.

Section I. Personal Particulars

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

Date:	24 November 2023 (Friday)	Time:	4:00 – 5:00 pm HKT
Title:	Cracking the Data Interview		
Speaker:	Dr. Monica CHENG, CEO and Co-Founder, DataMIMO LLC		
Summary: (>100 words)	<p>Both physics and DS/ML focus on the causality and correlation between multiple variables, use hypothesis testing and experimentation a lot, build models (regression, classification, clustering etc.)</p> <p>High Tech needs these methods: Forecasting (supply and demand) Search and advertising Computer vision Natural language processing Customer understanding and personalization Recommendation system Robotics</p> <p>Finance: Automating risk management Managing customer data Predictive analytics Deep personalization and customization Real-time analytics Fraud detection Consumer analytics Algorithmic trading</p>		

	 <p>Data Analyst known as business analyst</p> <ul style="list-style-type: none"> Skills <ul style="list-style-type: none"> Statistics Communication Business Knowledge Programming <ul style="list-style-type: none"> Excel Tableau SQL <p>A data Analyst will</p> <ul style="list-style-type: none"> Help people from across the company Understand specific queries with charts <p>Data Engineer known as database administrator & data architect</p> <ul style="list-style-type: none"> Skills <ul style="list-style-type: none"> Programming Mathematics Big data Programming <ul style="list-style-type: none"> Hadoop NoSQL Python <p>A data Engineer will</p> <ul style="list-style-type: none"> Versatile generalists Use computer science to process large datasets Focus on coding, cleaning up datasets Implement request that come from data scientists <p>Data Scientist known as Data Manager, statistician</p> <ul style="list-style-type: none"> Skills <ul style="list-style-type: none"> Mathematics Programming Communication Programming <ul style="list-style-type: none"> SQL Python R <p>A data Scientist will</p> <ul style="list-style-type: none"> Take data science projects from end to end Help store large amounts of data Create predictive modelling processes Present the findings <p>Resume: Key words+Industrial experience Interview: Who is the other party; Self introduction; Interaction; Body languages; Softskills: Adaptability; Culture fit; Collaboration; Leadership Potential; Prioritization. Posting: Hiring committee Pre-brief; Resume pool; Job posting Assessing: Online test Phone screen; Feedback From phone screen; On-site Interview; Hiring committee De-brief Offering: Offer negotiation; Team matching</p>
<p>The question you/your classmate asked that inspired you the most in the seminar:</p> <p>Many jobs need lots of experience while hard for fresh students to apply for, how can we get some starting experience like internship?</p> <p>Speaker's answer to the above question:</p> <p>Still many opportunities designed for junior people.</p> <p>We can only prepare better, first try to do some internship or at least some projects, also prepare some softskills, practice yourself to be extrovert.</p>	
<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:	