DUSTRIAL TA

INTRODUCTION

We have a talk by Petronas Digital via Online. The talk was to finding talented student and introduce what the benefit they will give to fresh graduate when work for them. They give more detailed about Software Engineer, Data Engineer and Data Analysist what exact insight of their role would do in the

PETRONAS DIGITAL

Aadrin Azrv

(CEO of Petronas Digital)

Petronas digital are a unique entity which is part of the Petronas Company. Instrumental with every single journey with oil and gas see in ecosystem in business which supported by digital.

Why digital?

Digital solution will enable us more safer, cleaner and cheaper

How to achieve?

Seeking individuals who have potential to hold the positions of Software Engineer, Data Scientist and Data Engineer

SOFTWARE ENGINEERING

WHY SOFTWARE ENGINEERING?

WHAT IS SOFTWARE ENGINEERING

EMERGING TECHNOLOGIES



SKILLS REQUIRED IN SOFTWARE ENGINEERING

EVOLUTION OF SOFTWARE **ENGINEERING**

only call coder or programmer

•simply doing everything such as putting the hardware together, building the computer and so on even they don't understand

•technologies are evolving rapidly, operational models evolve rapidly, role evolved rapidly there are technologies, trends, tools, operation organization are adopting •need to find a way how can be valuable to organizations and serve businesses the best way we can

today are talking about the role of software engineer, database engineer and data

SUMMARY 🦂

From this industrial talk, our group members know more about our future planning of what we need to work on and achieve it. We have many information that won't be able to find through internet or book, it's all the professional experience and suggestions. Besides, we need to enhance our skill if we want to work in the specific field in the future and also the technologies that requires to know as it will give us more oppotunities to work smoothly or even higher stage in future.

GROUP MEMBERS' REFLECTIONS

Wong Ya Jing A24CS0211

From this industry talk, I had a deeper understanding of my future career. I was introduced to more specific job scope in this field. Thanks to this industry talk I had a more clearer vision and plan to achieve my goal.

Chia Thung Thung A24CS0060

The industry talk cleared my doubts about the job scope of being a software engineer and a data scientist. I learned how to prepare myself before entering the workplace. I also received professional advice from the expert with full of knowledge and experience which will help me perform well in my future career

Yeoh Keng Wei A24CS0316

This industry talk give me a clear goal about what I want to do in the future so that I need to work hard on it. I will listen to their advice and learn to become a success software engineer and make a better society with technologies

Edwin Oo Ming Hao A24CS0245

The industry talk does a great job explaining the mix of skills needed for a career in data science, like curiosity, storytelling, math, and programming. It gives helpful advice for anyone wanting to succeed in this field.

Abralyn Hoo Weng Yan A24CS0218

In this PETRONAS industry talk, I learned that Data Engineering involves designing and building systems to collect, store, and analyze data. I also gained insights into different roles, such as Data Analysts who analyze data, and Data Engineers who integrate data. PETRONAS supports engineers by providing training and handson projects to improve their skills. This talk helped me understand the importance of data engineering in business decisions and growth.

WHAT IS DATA ENGINEERING?

· Data engineering is the practice designing and building systems for collecting, storing, and analyzing data at scale.

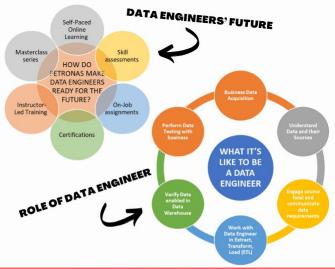
DATA ENGINEERING

DATA ENGINEERING ROLES

- 1. Data Analyst
- Extract analyze, interpret and identifying pattern in data from various tables or reports.
- 2. Data Engineer
- Provide data integration, data ETL/ELT between multiple data layers in a
- 3. Data Architect
- Responsible in designing and quality assurance of data architecture
- 4. Big Data Engineer
- Develop and build of data pipelines that work with large data sets.
- 5. Data Quality Engineer
- · Perform data validity, accuracy and integrity test across different component of data layers
- 6. Data Modeler
- Translate business needs into data model and manages the life cycle of the data model form requirements to design to implementation to maintenance.

7. Business Intelligence Engineer

· Turn data into crucial information and knowledge that can be used to make sound business decisions



DATA SCIENTIST

DATA SCIENTIST APPLICATION

- KEYS TO SUCCESS

DATA SCIENTIST DEPARTMENT IN A GLANCE

WHAT'S THE CULTURAL LIKE WORKING AS DATA SCIENTIST?

- cientist in charge on their own capability