Assignment 3: Career Talk-System Development @ Credance

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Analytics = refers to systematic analysis of data to extract meaningful insights and make informed decisions, which involves examination of large set of data **to identify patterns, trends, correlations** and other valuable information

Can be applied in:

1. Business
2. Finance
3. Healthcare
4. Sports
5. Transportation

Etc.

Data (from database, external data(open source), social media) >> collected into database >> data are transformed into simpler form >> analytics and modelling(prediction model) >> prediction and visualization (data into visual for easier understanding) >> insights (strategic, tactical, operational)

Eacg process are represented by different roles,

Business analyst – work with customer to gather information and questions, as well as their needs. What management wants to see.

Data architect – construct process of project (eg: type of visualization to use) as per customers’ request

Data scientist – study on technology for data processing, whether can be used in the project or not)

Data analyst – analyse data, technical person, need to have strong programming language skills to process and analyse the data.

Data engineer – data gathering from customers and prepare for data analyst, responsible for data collection, data transformation, and analytics and modelling. Need to have programming skills

BI developer – focuses on visualization, uses synthesize data and build it into meaningful dashboard for stakeholder use. Responsible for customers’ satisfaction.

Technology used:

Database/OLAP: ClickHouse, PostgreSQL, Druid

Visualisation tool: Tableau, PowerBI, Metabase, Superset

ETL/ELT: Airflow, Spark

Programming Language: SQL, Python, Bash Syntax

Workplace culture practiced in credence:

* Open communication (between employees and management)
* Continuous learning and development
* Empowerment and autonomy
* Celebration of success

Credence focus on improving skills, where you can focus on multiple roles. The roles are not limited to only computer science students, as long as you’re interested and have the courage and discipline to learn new skills as data analyst, data architect etc then you’re more than welcome to pursue in data.