**Task 3: Data Scientist Roles Research:**

**1.Data Analyst:  
 A data analyst focuses on collecting, processing, and analysing data to identify trends and patterns. They create visualizations, reports, and dashboards to help businesses make data-driven decisions.  
Example Tasks: Cleaning raw data, generating reports, and performing statistical analysis.**

**2. Machine Learning Engineer**

**This role involves developing and deploying machine learning models. Machine Learning Engineers work on feature engineering, model optimization, and integrating AI solutions into applications.  
Example Tasks: Training AI models, improving algorithm performance, and automating decision-making processes.**

**3. Data Engineer**

**Data Engineers build and maintain the infrastructure required for large-scale data processing. They design data pipelines, ensure data quality, and optimize storage solutions.  
Example Tasks: Developing ETL (Extract, Transform, Load) pipelines, managing databases, and ensuring efficient data flow.**