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## **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.