**TASK NO 3**

**DATA SCIENTIST KEY ROLES AND RESEARCH**

**MACHINE LEARNING ENGINEER:**

 Builds predictive models using machine learning and deep learning techniques.

 Optimizes algorithms for accuracy, efficiency, and scalability.

 Deploys models into production for real-world applications like recommendation systems, fraud detection, etc

**BUISNESS ANALYST**

 Translates data insights into actionable business strategies.

 Communicates findings to stakeholders through dashboards, reports, and storytelling.

 Bridges the gap between technical teams and business executives.

**DATA ANALYST & EXPLORERE**

 Builds predictive models using machine learning and deep learning techniques.

 Optimizes algorithms for accuracy, efficiency, and scalability.

 Deploys models into production for real-world applications like recommendation systems, fraud detection, etc.

**THE FOLLOWING ARE THE RESPONSIBILITIES OF THE DATA SCIENTIST**

1. **Data Collection & Preparation**
2. **Exploratory Data Analysis (EDA)**
3. **Machine Learning & AI Model Development**
4. **Big Data & Scalable Data Processing**
5. Data-Driven Decision Making & Business Strategy
6. Data Visualization & Communication
7. Model Deployment & Maintenance