

## TASK:1

### five applications of data science

#### 1. Personalized Medicine

- **Industry:** Healthcare
- **Usage:** Tailors treatments for individual patients using genetic and medical data to improve outcomes and reduce side effects.

#### 2. Fraud Detection

- **Industry:** Finance
- **Usage:** Identifies unusual transaction patterns to prevent fraudulent activities and minimize financial losses.

#### 3. Customer Segmentation

- **Industry:** Retail
- **Usage:** Groups customers based on buying habits to personalize marketing efforts and enhance the shopping experience.

#### 4. Route Optimization

- **Industry:** Transportation
- **Usage:** Determines the most efficient delivery routes to save time, reduce fuel consumption, and improve delivery speed.

#### 5. Precision Farming

- **Industry:** Agriculture
- **Usage:** Analyzes farming data to optimize planting and harvesting decisions, increasing crop yields and sustainability.