AIML

**TASK -3**

**Data Collection and Preparation**

* **Responsibilities:**
  + Gather data from diverse sources, including databases, APIs, and third-party platforms,Clients,Business Analytics.
  + Cleanse and preprocess data to ensure accuracy and consistency.
  + Transform raw data into structured formats suitable for analysis.
  + Handle missing values, remove duplicates, and validate data integrity.
  + Enhance data collection procedures to include all relevant information for developing analytic systems.

**Data Analysis and Modeling**

* **Responsibilities:**
  + Conduct exploratory data analysis to identify patterns, correlations, and trends.
  + Develop and implement statistical models and machine learning algorithms.
  + Create predictive models to forecast future trends and behaviors.
  + Optimize models for performance and accuracy.
  + Analyze large amounts of information to find patterns and solutions.

**Data Visualization and Communication**

* **Responsibilities:**
  + Present data insights through clear and compelling visualizations.
  + Develop dashboards and reports to communicate findings to stakeholders.
  + Translate complex data analyses into actionable business insights.
  + Collaborate with business and IT teams to implement data-driven strategies.
  + Propose solutions and strategies to tackle business challenges.