Name: Lokeshkannan U

Roll number: 713322AD058

Dept: AiDS

Task number:3

Task: Data Scientist Roles ResearchData Analysis and Interpretation

Data Scientists are responsible for analyzing large sets of structured and unstructured data to identify patterns, trends, and insights.

* Collecting and processing raw data from various sources.
* Using statistical methods and tools to interpret data sets.
* Translating data findings into easy format for stakeholders.

**Machine Learning and Predictive Modeling:**

Data Scientists develop and implement machine learning models to make predictions and automate decision-making processes.

* Designing and training machine learning models.
* Evaluating model performance and optimizing algorithms.
* Implementing models into production systems to improve business outcomes.

**Data Communication and Visualization:**

Data Scientists communicate their findings and insights through visualizations and reports to help stakeholders make data-driven decisions.

* Creating dashboards and visualizations to represent data insights.
* Preparing detailed reports and presentations.
* Collaborating with cross-functional teams to understand business requirements and provide data-driven solutions.