



Assignment

Understanding Exploratory Data Analysis (EDA)

Objective:

To help you understand what Exploratory Data Analysis (EDA) is, why it's important, and how it's used in real-world situations.

Instructions:

Write a short response (about 150–200 words) answering the following questions:

1. What is Exploratory Data Analysis (EDA) in your own words?
2. Why is EDA an important step before building a machine learning model or making data-driven decisions?
3. Give **one or two examples** of how EDA can be applied in real-life situations (for example, in business, healthcare, or social media).

Tips:

- Keep your explanation simple and clear.
- Use examples that make sense to you, like analyzing your favorite app's user data or studying weather patterns.
- You can include mentions of tools like Python, pandas, or visualization libraries (e.g., Matplotlib, Seaborn) if you're familiar with them.

Due Date: [See Assigned Due Date on Teams and Grading Portal]

Goal:

Show that you understand how EDA helps uncover patterns, spot problems, and make data more meaningful before deeper analysis.