![greatlearning - Power Ahead]

**Week 2:** Advanced Statistics (Total video duration= 3.67 hours. You will be required to spend 60 minutes/day along with practicing datasets and quizzes)

- Mentor Session Duration: 2 hours

- Faculty Name: Ms. Sarita Upadhya

- Number of videos: 11

**Learning Outcomes from the Module:**

After learning from this module, learners will be able to understand:

1 { • Concepts of EDA

2 { • Data Preprocessing and Preparation

3 { • Data Visualization

4 { • Case study

| Mentor Session Duration: 2 Hours | | Faculty Name: Ms. Sarita Upadhya | No. of videos: 11 |
|---|---|---|---|
| **Video Name** | **Duration of the video** | **Topics Covered** | **Conceptual or Hands On** |
| EDA Introduction & Data Pre-Processing | 00:19:37 | What is EDA?<br>Bad data?<br>Data Preprocessing | Conceptual |
| Python Hands-on - Data Description | 00:11:33 | Python hands-on example using referral data | Hands-on |
| Python Hands-on - Data Pre-processing | 00:16:00 | Python hands-on example using referral data | Hands-on |
| Data Visualization and Data Preparation | 00:22:23 | What is Data Visulisation?<br>Univariate, Bivariate and Multivariate Analysis<br>Data Scaling, Transformation | Conceptual |
| Python Hands-on - Data Visualization | 00:25:27 | Python hands-on example using referral data | Hands-on |
| Python Hands-on - Data Preparation | 00:40:52 | Python hands-on example using referral data | Hands-on |
| Case Study – Customer Credibility Part I | 00:12:01 | | Hands-on |
| Case Study – Customer Credibility Part II | 00:31:06 | Python hands-on Customer Credit Default case study | Hands-on |
| Case Study – Customer Credibility Part III | 00:12:18 | | Hands-on |
| Case Study – Customer Credibility Part IV | 00:16:40 | | Hands-on |
| Case Study – Customer Credibility Part V | 00:13:05 | | Hands-on |

# Few textbooks that you can refer to:

**1**

**John Tukey**

**Exploratory Data Analysis**

**2**

**Allen B. Downey**

**Think Stats**

**3**

**Stephen Henry**

**Graphical EDA**