

Diary Entry - Week 3

Date: 29-07-2024 to 02-08-2024

Summary:

Week 3 of academic studies was a comprehensive exploration into data manipulation and visualization techniques using Pandas, Seaborn, and Matplotlib libraries, alongside further immersion into regression models. Additionally, an introduction to Data Structures and Algorithms (DSA) was provided, enhancing the understanding of fundamental programming concepts.

Pandas, Seaborn, and Matplotlib:

- Delved into the Pandas library, an indispensable tool for data manipulation and analysis in Python, learning about data structures such as DataFrames and Series.
- Explored data visualization techniques using Seaborn and Matplotlib libraries, gaining insights into creating visually appealing and informative plots and charts.
- Engaged in practical exercises to analyze and visualize datasets, honing skills in exploratory data analysis and presentation.

Linear and Logistic Regression:

- Expanded upon the understanding of linear and logistic regression models, exploring advanced concepts and techniques for model evaluation and validation.
- Delved into practical applications of regression models in real-world scenarios, understanding their limitations and best practices for model selection and deployment.

Introduction to DSA:

- Received an introduction to Data Structures and Algorithms (DSA), elucidating their significance in computer science and programming.
- Discussed fundamental data structures such as arrays, linked lists, stacks, and queues, alongside basic algorithmic concepts like searching and sorting.

- Emphasized the importance of algorithmic problem-solving skills in software development and competitive programming.

WEEK <i>at a glance</i>	
Monday 29th July	09:00 AM- Machine Learning 01:00 PM- Numpy
Tuesday 30th July	09:00 AM- Machine Learning 03:00 PM- Object Oriented Programming 05:00 PM- Intern Catchup Session
Wednesday 31st July	03:00 PM- Object Oriented Programming
Thursday 01st Aug	10:30 AM- Machine Learning 03:00 PM- Pandas
Friday 02nd Aug	08:00 AM- Data Structures and Algorithms 02:00 PM- Doubt Session on Linear Regression