

Internships Daily Diary (2025-26)

Week No: 3

Day: Friday

Date: 20-6-2025

Today, I learned Pandas library & how to clean data or how to deal with big data. Clean data is a crucial for effective analysis & machine learning. The types of Data problems are missing data, Duplicates data, Incorrect data types, text, outliers etc.

Handling Data like handling empty cells using `dropna()` it delete or drop empty cell, filling empty cells by `fillna()`, handling empty cells using `mean()`, `median()`, `mode()`, handling datetime using `to_datetime()`, Data correlation using `corr()` & removing duplicates values by boolean value if it is True then it is duplicate, if it is not True it's False then there is no duplicate data.

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Internships Daily Diary (2025-26)

Week No: 3

Day: Thursday

Date: 19-6-2025

Today, I learned about Pandas library. Pandas stands for a panel data for python data analysis. It was created by Wes McKinney in 2008. Also learned about Pandas series & Dataframe & their methods. Like locating data, locating specific data by passing index, importing datasets of csv file, excel file, json file. I learned how to analyze Dataframe in Pandas & its methods to analyze data: head(), tail(), getting information about data by using info(), describe(), unique(). It returns unique values.

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Internships Daily Diary (2025-26)

Week No: 3

Day: Wednesday

Date: 18-6-2025

Today, I learned about Numpy methods like positive slicing, negative slicing, shape of array, reshaping array, size of array, interacting array, joining array, splitting array, sorting array, searching for array & also learned about function like Aggregate functions are `sum()`, `min()`, `max()`, `cumsum()` & statistical function `mean()`, `median()`, `mode()` in statistical function if we want to use it we need to first import statistics. I learned filter array & it's methods we learned how to create filter array, conversion of data type, adding & removing elements by using `append()`, `insert()` & `delete()`. At last we run some basic programs using function & methods.

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Internships Daily Diary (2025-26)

Week No: 3

Day: Tuesday

Date: 17-6-2025

Today, I learned about machine learning libraries. Today I studied Numpy library which is used for mathematical & scientific computations. Also I learned how to import Numpy library.

After it I studied Array in Numpy 0 dimensional, 1 dimensional, 2 dimensional & 3 dimensional array with its syntax. I learned to check version of Numpy, how to access elements in array, how to check dimensions of array & also I learned Negative Indexing.

After theory part I run some programs for better understanding of dimensional array & negative Indexing.

Internships Daily Diary (2025-26)

Week No: 3

Day: Monday

Date: 16-6-2025

Today, I learned about Introduction to Machine Learning & some real life examples of it. Most of people use it in all over world. Machine Learning is a subset of Artificial Intelligence (AI). that allows computers to learn from data. After Introduction, we looked at some real-life examples like email spam detection, Amazon/flipcart/Meesho product suggestions & applications like Healthcare, Retail & E-commerce, social media, Education etc.

After that I learned Types of Machine learning that is i) supervised learning:- That's the model learns from labeled dataset.  
ii) Unsupervised learning:- That's model learns from unlabeled data iii) Reinforcement learning:- The models learn by interacting with environment & by receiving rewards or feedbacks.

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## Internships Daily Diary(2025-26)

Department of Computer Engineering

Program Code

:CO5K

Name of the Student

: Rajeshwami Uttam Kumbhar.

Name of the Mentor (Faculty)



: Miss S. V. Mativade

Name of the Mentor (Industry):

: Mr. Abhijit P. Gatade

Enrollment Number

: 23213500243

Week	Day & Date	Discussion Topics/Activity	Details of Work Allotted Till Next Session /Corrections Suggested/Faculty Remarks	Signature of Industry Mentor
Week	Mon, Date 16-6-25	* Introduction to machine learning [ML] * types of ML * real life examples	* Definition of ML * Types: supervised, unsupervised, reinforcement learning & some examples	 
	Tue, Date 17-6-25	* Machine learning libraries Numpy * dimensional array with e.g.	* numpy, array in numpy, 0, 1, 2, 3 dimensional array, negative indexing	
	Wed, Date 18-6-25	* Functions * filter array * methods	aggregate function, statistical function, conversion, creating filter array, methods	
	Thu, Date 19-6-25	* Pandas * Series * DataFrame * methods	pandas, pandas series, DataFrame, importing dataset, methods to handle dataset	
	Fri, Date 20-6-25	* Handling Data * Types of Data Problems	cleaning data, correcting data in wrong format, mean, median, mode	