



Sadguru Balumama Shikshan Prasarak Mandal's
K.P.PATIL INSTITUTE OF TECHNOLOGY

(DTE CODE : 6814) (MSBTE Code : 1661)

Approved by AICTE, DTE Mumbai & Govt. of Maharashtra, Affiliated to MSBTE Mumbai

Internships Daily Diary(2025-26)

Department of Artificial Intelligence & Machine Learning

Program Code :AN5K

Name of the Student: samruddhi Bhikaji chougale

Name of the Mentor (Faculty): Mrs. P.M. Kumbhar

Name of the Mentor (Industry): Abhijit Grataude

Enrollment Number: 232135 00039

Week	Day & Date	Discussion Topics/Activity	Details of Work Allotted Till Next Session /Corrections Suggested/Faculty Remarks	Signature of Industry Mentor
Week 6	Mon, Date 8.7.25	Introduction Machine learning concept	read about ML Lifecycle	 
	Tue, Date 9.7.25	Types of ML	understand differences and write short notes	
	Wed, Date 10.7.25	Overview of ML workflow	study ML Pipeline steps	
	Thu, Date 11.7.25	Introduction to datasets and feature types	Learn about dataset formats, & data importance	
	Fri, Date 12.7.25	common ML algorithms & use cases	Make a chart of algorithms and suitable problem types	
	Sat, Date 13.7.25	Tools & Libraries used in ML	install tools, explore sample datasets & basic ML scripts	



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Internships Daily Diary (2025-26)

Week No: 6

Day: Monday

Date: 8.7.25

Topic : Introduction Machine
Learning

Today, I was introduced to the concept of machine learning. I learned what ML is, how it differs from traditional program and its impact across industries like healthcare, finance, and marketing.

I also explored the stages of an ML project, such as data collection, preprocessing, model training, and deployment.

This session gave me a strong conceptual start for upcoming practical work.



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Internships Daily Diary (2025-26)

Week No: 6

Day: Tuesday

Date: 9.7.25

Topic :- Types of ML

I studied the different types of machine learning: supervised, unsupervised, and reinforcement learning.

I learned how supervised learning uses labeled data, while unsupervised learning finds hidden patterns without labels.

Reinforcement learning involves learning through rewards, I prepared a comparative table to clearly understand the key differences and use cases of each type.



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Internships Daily Diary (2025-26)

Week No: 6

Day: Wednesday

Date: 10.7.25

Topic :- overview of ML workflow

Today's focus was the typical workflow of an ML project. I understood each phase: defining a problem, selecting and preparing data, choosing the right algorithm, training and testing the model, and finally evaluating and deploying it.

I noted how important planning is before jumping into coding or modeling.

I also reviewed real-world ML workflows from projects shared on Kaggle.



Internships Daily Diary (2025-26)

Week No: 6

Day: Thursday

Date: 11, 07, 25

Topic : Introduction to datasets

I learned how datasets are the core of every machine learning project.

I studied types of features categorical, numerical, and boolean and the importance of understanding the target variable.

I also explored dataset formats like csv and json.

I practiced loading a sample dataset using Pandas and viewed basic statistics & feature summaries.



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Internships Daily Diary (2025-26)

Week No: 6

Day: Friday

Date: 12.11.25

Topic :- common ML algorithm

Today I explored the various machine learning algorithms and categorized them based on problem type.

I learned about regression, classification, clustering, and ensemble methods. I understood the basic idea behind algorithms like Linear Regression, kNN, Decision Tree, and k-means.

I created a chart summarizing which algorithms are suitable for which kinds of tasks.



Internships Daily Diary (2025-26)

Week No: 6 Day: Saturday Date: 13/11/25

Topic : Tools & Libraries

The final day of the week focused on the tools and libraries commonly used in ML development.

I learned about Python libraries like Pandas, NumPy, scikit-learn, and matplotlib.

I also installed these libraries and practised importing datasets and performing simple data operations.

I now feel confident with the environment setup required for practical ML work.