PRACTICUM-IV Plan

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Batch:	B-26	**Semester:**	IV
Branch:	CSE	**Mentor Name:**	Dr. Shivdutt Sharma

1. **Broad Area of the Project :-**
   HeartGuard focuses on the development of a robust machine learning model designed to predict heart disease risks. With a growing global concern for cardiovascular health, early detection and preventative measures are essential.
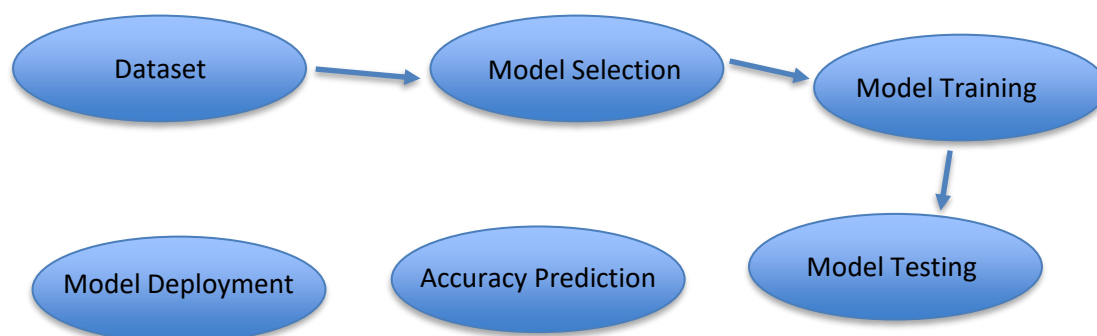
2. **Project Title :-**
   HeartGuard :- Predictive Modelling for Cardiovascular Wellness

3. **Project/Problem Description and Relevance :-**
   Heart disease is a prevalent and life-threatening health condition that requires early detection for effective treatment. Machine learning models have shown promise in predicting heart disease, offering a proactive approach to healthcare.

4. **Proposed Methodology (Block schematic/algorithm) :-**

5. **Skillset required to solve/address the problem :-**
   - Machine Learning.
   - Feature Engineering.
   - Data Visualization.
   - Domain Knowledge (Healthcare).
   - Model Evaluation.
   - Ethics and Privacy Awareness.

6. Practicum Schedule :-

Start Date Practicum-IV:	08, Jan.'24
End Date of Practicum-IV:	29, Apr.'24
Total No. of Weeks:	16
Practicum Plan Submission	15, Jan.'24
Review – I	2, Mar.'24
Review – II	6, Apr.'24
Submission of Revised Report	22, Apr. 24
External Examination	26, Apr.'24

7. Weekly Milestones :-

Week	Major Activities to be Completed
Week 1	Domain Exploration for ideas.
Week 2	Idea Exploration.
Week 3	Exploration different platforms for collecting data.
Week 4	Dataset filtration.
Week 5	Explore the Basics of Python and ML.
Week 6	Explore the Basics of ML Algorithms.
Week 7	Training of the model.
Week 8	Training of the model.
Week 9	Test and tune model to increase accuracy and finalize model.
Week 10	Testing and debugging.
Week 11	Finalize model after testing.
Week 12	Deployment.
Week 13	Ethical considerations.
Week 14	Updates and improvements.
Week 15	Updates and improvements.
Week 16	Finalize all aspects of the project.

Student Signature   **Mentor Signature**