Faculty of Engineering and Technology

Major Project Work

Project Batch ID
CTB07806

Name of student	Register Number	Department	Mobile Number	Email ID
Siddharth Vats	RA2111003010606	CSE	8928729440	ss3108@srmist.edu.in
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Degree/ program	B.Tech	**Specialisation**	Computer Science & Engineering
Academic Year	2024-2025 (Even)	**Semester**	8
Course Code	18CSP109L	**Course Title**	Major Project

Working Title of the Project:	**AI–Powered Early Diagnosis And Personalised Health Recommendations For Coronary Artery Disease (CAD) Using Predictive Analytics**
Project Site / Location	Chennai
Name and address of the company / organisation (Applicable for projects with industry or industry support)	SRM University, Kattankulathur, Chengalpattu District-603203

Supervision Team

	Supervisor	Co-Supervisor	External Supervisor (If applicable)
Name	Dr. M. Revathi		
Designation	Assistant Professor		
Department	Computing Technologies		
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Student Log Book – Meeting with Guide

Date of Meeting	Activities or Discussion of the project	Supervisor Comments	Signature of the Supervisor with Date
24/01/25	Brainstormed project ideas based on college-assigned Sustainable Development Goals (SDGs). Selected "Improving Mortality" by predicting heart disease using AI.	Approved topic. Begin literature review and dataset exploration.	24/1
05/02/25	Reviewed literature on cardiovascular disease prediction. Identified gaps in current systems. Began drafting the problem statement and objectives.	Refine objectives. Include real-world applicability of project.	5/2
15/02/25	Finalized problem statement and started work on the dataset. Selected open-source heart disease dataset and discussed preprocessing steps.	Ensure class balance. Clean and normalize data appropriately.	15/2
28/02/25	Completed data cleaning. Began feature analysis and encoding. Started preliminary visualizations.	Visualize data to support insights. Start model experimentation.	28/2
5/03/25	Trained initial models – Logistic Regression and Random Forest. Evaluated basic accuracy scores.	Add more evaluation metrics like precision, recall, and AUC.	5/3
12/03/25	Introduced SVM to the model pipeline. Discussed ensembling the models using soft voting.	Proceed with ensemble approach. Perform cross-validation.	12/3
18/03/25	Implemented soft voting ensemble. Achieved improved F1 and PR-AUC scores.	Finalize metrics. Begin documentation of methodology.	18/3
28/03/25	Completed model evaluation. Discussed ROC and PR curves. Finalized visualization section.	Include confusion matrix and feature importance for completeness.	28/3
7/04/25	Designed high-level and low-level system architecture. Outlined deployment strategy.	Prepare diagrams. Document software requirements.	7/4
15/04/25	Developed AI Chemist Assistant module for basic medication suggestions. Added it to system pipeline.	Include disclaimers. Clearly state that it's an informational tool, not prescriptive.	15/4
20/04/25	Prepared research paper and final report chapters – methodology, design, evaluation, results. Worked on pagination and formatting.	Ensure consistency in headings, references, and abbreviations.	20/4

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25/04/25	Reviewed entire research paper and report for plagiarism. Began preparing Turnitin report and making content edits.	Reword AI-generated content. Submit draft for final comments.	25/4
06/05/25	Final review of project report, logbook, and code documentation. Prepared presentation slides.	Approved final report. Focus now on viva preparation.	6/5