College of Engineering and Technology
Project Work/Internship – Student Hand Book

SRM INSTITUTE OF SCIENCE & TECHNOLOGY

Project Batch ID
B370

Degree/ program	B.Tech	Specialisation	Computer Science & Engineering		
Academic Year	2023-2024 (Even)	Semester	8		

Name of student	Register Number	Department	Mobile Number	Email ID
Saransh Singh	RA2011003010163	CINTEL	9472257918	ss7235@srmist.edu.in
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Working Title of the Project:	Predicting Used Car Prices using Machine Learning with Flask Integration
Project Site / Location	SRM KTR, Chennai
Name and address of the company / organisation (Applicable for projects with industry or industry support)	SRM IST, Kattankulathur, Chengalpattu District-603203

Supervision Team

	Supervisor	Co-Supervisor	External Supervisor (If applicable)
Name	Dr. K. Madhumitha		
Designation	Assistant Professor		
Department	CTECH		
Campus	Kattankulathur		
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1

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Course Code	18CSP109L/ 18CSP111L	Course Title	Project

<div align="center">Mission Statement</div>

Problem (or) Product Description: Accurately pricing used cars is challenging due to numerous factors like age, owners, km driven. Traditional methods can be inconsistent. This project aims to develop a machine learning model using regression analysis and random forests to predict prices. Integrated into a flask web interface, it will provide users with reliable price estimates, enhancing market transparency and decision making.

Assumptions and Constraints Assumptions: Clean, complete dataset, standard car features. Constraints: Limited data size, feature variability.

Stakeholders Car sellers, car buyers, developers.

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Division of work and contributors

Time period		Activities or components of the project	Name/Register Number of the Individual Contributor	Names/Register Number of the Joint Contributors
From Date	To Date			
10/11/23	12/11/23	Topic Idea Discussion	RA2011003610163 RA2011003010177	
13/11/23	15/11/23	Possible ways of approach	RA2011003010163 RA2011003010177	
17/11/23	18/11/23	Final Idea Discussion	RA2011003010163 RA2011003010177	
20/11/23	20/11/23	Zeroth Review	RA2011003010163 RA2011003010177	
25/11/23	27/11/23	Finding appropriate dataset	RA2011003010163 RA2011003010177	
6/12/23	8/12/23	Data cleaning and feature engineering discussions	RA2011003010163 RA2011003010177	
3/1/24	6/1/24	Correlation and Heatmap discussions	RA2011003010163 RA2011003010177	
7/1/24	8/1/24	Model training and feature importance discussions	RA2011003010163 RA2011003010177	
8/1/24	8/1/24	Random forest regressor and parameter discussions	RA2011003010163 RA2011003010177	
9/1/24	9/1/24	Random CV and Scatter Plot discussions	RA2011003010163 RA2011003010177	
10/1/24	10/1/24	1st Review	RA2011003010163 RA2011003010177	
15/1/24	17/1/24	Performance metrics discussions	RA2011003010163 RA2011003010177	
18/1/24	20/1/24	Building of frontend first page	RA2011003010163 RA2011003010177	
20/1/24	22/1/24	Building of frontend second page	RA2011003010163 RA2011003010177	

3

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From Date	To Date			
25/1/24	27/1/24	Saving the model using Pickel.	RA2011003010163 RA2011003010177	
28/1/24	31/1/24	Integrating front end & Backend	RA2011003010163 RA2011003010177	
18/2/24	18/2/24	Review 2	RA2011003010163 RA2011003010177	
23/3/24	23/3/24	Review 3	RA2011003010163 RA2011003010177	

Summary record of major progress meetings with supervisors

Summary record of major progress meetings with supervisors			Working title of dissertation/research project:	
Meeting date & supervisors present	**Progress since last meeting**	**Agreed programme of work and target dates**	**Other issues, e.g. facilities, supervision, training needs, etc.**	**Date of next meeting**
18/11/23	Developed and discussed the title and abstract.	Fixed the project title.	Needed more information regarding the application	20/11/23
20/11/23	Title fixed, roadmap built course of action planned.	Starting with the project modules. 25/11/23	Needed more parameters and dataset.	8/12/23
28/2/24	All modules built with proper algo.	Need to start research paper & report.	Discussions and help in research paper & develop report	3/3/24

Worksheet / Data collection / Observation etc

Data collection done from Kaggle.

Data collection done from Google dataset.

Journal Publication Details

Research paper was accepted & presented at the scopus approved ICRCET 12th Internation conference.