

MAJOR / MINOR PROJECT ABSTRACT [Form - 1] (YEAR - 2023)

NAME OF LAB COORDINATOR: Sanjeev Choudhary

TITLE OF PROJECT: AI Based Personalized Electronic Gadgets Recommendation System

PROJECT TRACK: (Tick the appropriate one / ones)

1. R&D (Innovation)	2. CONSULTANCY (Fetched from Industry)	3. STARTUP (Self-Business Initiative)	<input checked="" type="checkbox"/> 4. PROJECT POOL (From IBM / INFOSYS)	<input checked="" type="checkbox"/> 5. HARDWARE / EMBEDDED
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BRIEF INTRODUCTION OF PROJECT:

AI-based Personalized Electronic Gadgets Recommendation System analyzes your preferences & usage patterns to suggest the perfect devices tailored to your needs. The system employs content-based filtering, which focuses on characteristics & features of gadgets to determine their similarity. Cosine Similarity is utilized as a measure to quantify the similarity b/w user's preferences & gadgets features.

NAME OF TOOL / TECHNOLOGY	VERSION	SOFTWARE / HARDWARE	PURPOSE OF USE
Visual Studio	1.75	SW	To implement Project
Frontend - HTML, CSS, JS		SW	For creating & developing interactive web page
Flask		SW	Python Based framework for building web apps
Web Browser		SW	Testing & Previewing developed web pages

PROPOSED PROJECT MODULES:

NAME OF MODULE	PROPOSED FUNCTIONALITY IN PROJECT
Responsive design module	Ensure project is responsive with different devices & screen sizes.
Recommendation Engine	To suggest personalized gadgets recommendation
Gadgets Catalog	Create a catalog of electronic gadget
Search & filtering	Allow to search & filter gadgets based on various criteria.

TEAM MEMBER DETAILS:

STUDENT NAME	CLASS & GROUP	MOBILE No.	EXPERTISE AREA	ROLE IN PROJECT
Vaibhav Jain	BITB-G2	8824553787	Backend	Development (Backend)
Sneha Khandelwal	BITB-G2	9521793674	Frontend	Frontend web designing & connection
Sonal Kumari	BITB-G2	7733057422	R & D, Dataset	Requirement gathering & Dataset creation
Mishu Jain	BITB-G2	9521305028	Data processing	Data set Processing & Documentation

- NOTE:** 1. This form is to be submitted by a team of maximum 4 students in the starting of semester to lab coordinator.
2. Students must keep a Xerox copy of this form as reference for project work and attach it to final report.

ROLE SPECIFICATION OF TEAM MEMBERS [Form – 2]

[illegible]

MENTOR'S NAME & SIGNATURE Pravem Isr. YADAV. Pravem

NOTE: 1. This form is to be submitted by a team of maximum 4 students in the starting of semester to lab coordinator.
2. Every member student must keep a Xerox copy of this form as reference for his / her part in project work.
3. Students must provide the detailed list of planned activities along with their completion deadline dates.
4. The lab coordinator will check the weekly progress of student against the information provided in this form.

PROJECT WEEKLY STATUS MATRIX (FOR LAB COORDINATORS) [Form-3A]

NAME OF STUDENT - 1		Vaidhyan Jain		
NAME OF PROJECT		AI Based Personalised Electronic Gadgets Recommendation System		
OTHER TEAM MEMBERS		2. Sneha Khandelewal	3. Sonali Kumawat	4. Mishu Jain
WEEK (TO-FROM)	WORKING ON MODULE	PROGRESS ACHIEVED	COMMENTS	MARKS (X / 10)
2/3/23	Pre-Dev. Task	Studied about the requirement	good	8
5/3/23	Pre-Dev. Task	chose correct model	Completed on Time	9
8/3/23	Recommendation engine	Worked on Flask	"	9
12/3/23	Recommendation engine	used cosine similarity	Completed on Time	8
15/3/23	Recommendation engine	calculated accuracy	"	9
20/3/23	Recommendation engine	generated recommendation	Completed	9
22/3/23	Back End	Integrated flask	Use of Context Tech	9
24/3/23	Back End	Added flask routes	"	10
29/3/23	Back End	Added flask routes	"	10
4/4/23	Testing	Testing & merging modules	Complete	9
8/4/23	Testing	Testing & merging modules	Complete	10
12/4/23	Bug fixing	Bug fixing on modules	Complete	10
20/4/23	Bug fixing	desired output	Complete	9
TOTAL WEEKS	MODULE COMPLETED (YES / NO)	OVERALL PROGRESS (POOR / AVG / GOOD)	OVERALL COMMENT (POOR / AVG / GOOD)	PERCENTAGE MARKS ESTIMATE
LAB COORDINATOR's REMARKS				

- NOTE:**
1. This form is to be maintained in a file by lab coordinators for student - 1 of the team to track his / her progress.
 2. Lab coordinators must cross check and evaluate the PROGRESS ACHIEVED + it's DOCUMENTATION by student against the work done by student and note their own comments about student's performance.
 3. The lab coordinator must evaluate student's work for every lab from a score of 10 points.
 4. The lab coordinator must compute average of these points at the end of semester to draw an estimate of the PERCENT MARKS to be awarded to the student for his / her performance.
 5. The lab coordinator must IMMEDIATELY CONTACT MENTOR FACULTY of student in case of POOR PERFORMANCE or 2 CONTINUOUS ABSENCE from lab.
 6. In case of absence, 00 / 10 MARKS will be awarded if the mentioned work is not presented in next lab by student.

PROJECT WEEKLY STATUS MATRIX (FOR LAB COORDINATORS) [Form-3B]

NAME OF STUDENT - 2		Sneha Khandelwal		
NAME OF PROJECT		A.I. Based Personalised Electronic Gadget Recommendation System		
OTHER TEAM MEMBERS		1. Vaibhav Jain	3. Sonali Kumari	4. Mishu Jain
WEEK (TO-FROM)	WORKING ON MODULE	PROGRESS ACHIEVED	COMMENTS	MARKS (X / 10)
			good	8
20/2/23	Design	V.T. Research	Completed 95 expected	9
23/2/23	Design	Homepage functionality	"	9
25/2/23	Design	Recommendation functionality	Complete	8
1/3/23	Design	Page Design	"	9
8/3/23	Activity module	Responsive page Design	Use of Latest Tech	9
10/3/23	Data Collection	structuring	"	9
15/3/23	Data Collection	structuring	"	10
17/3/23	Exploration	selecting records	Complete	10
18/3/23	Exploration	Explained Similarity Matrix	Complete	9
21/3/23	Integration	Testing & merging modules	Complete	10
25/3/23	Testing	Testing & merging modules	Complete	9
13/4/23	Buy final	Buy final modules	Complete	9
19/4/23	Buy final	Desired output	Complete	
TOTAL WEEKS	MODULE COMPLETED (YES / NO)	OVERALL PROGRESS (POOR / AVG / GOOD)	OVERALL COMMENT (POOR / AVG / GOOD)	PERCENTAGE MARKS ESTIMATE
LAB COORDINATOR'S REMARKS				

- NOTE:**
1. This form is to be maintained in a file by lab coordinators for student - 2 of the team to track his / her progress.
 2. Lab coordinators must cross check and evaluate the PROGRESS ACHIEVED + it's DOCUMENTATION by student against the work done by student and note their own comments about student's performance.
 3. The lab coordinator must evaluate student's work for every lab from a score of 10 points.
 4. The lab coordinator must compute average of these points at the end of semester to draw an estimate of the PERCENT MARKS to be awarded to the student for his / her performance.
 5. The lab coordinator must IMMEDIATELY CONTACT MENTOR FACULTY of student in case of POOR PERFORMANCE or 2 CONTINUOUS ABSENCE from lab.
 6. In case of absence, 00 / 10 MARKS will be awarded if the mentioned work is not presented in next lab by student.

PROJECT WEEKLY STATUS MATRIX (FOR LAB COORDINATORS) [Form-3C]

NAME OF STUDENT - 3		Sonali Kumawat		
NAME OF PROJECT		AI Based Personalised Electronic Gadget Recommendation System		
OTHER TEAM MEMBERS		1. Vaibhav Jain	2. Sneha Khandelwal	4. Mishu Jain
WEEK (TO-FROM)	WORKING ON MODULE	PROGRESS ACHIEVED	COMMENTS	MARKS (X / 10)
19/1/2023	R&D	Browsing	good	8
22/1/2023	R&D	complete R&D	Complete as Expected	9
28/1/2023	R&D	Finalized Project Plan + Requirement	"	10
1/2/2023	Data Creation	searching different e-commerce sites + analyse them.	"	9
			use of Captcha Tech.	9
8/2/2023	Data Creation	Decide to create the gadget details + finalise a chrome extension	"	8
		web scraper to scrape data	"	10
			Complete	10
15/2/23	Data Creation	Scrape dataset for gadget like their name + other specification & save the scraped data in csv file.	"	9
			Complete	9
16/2/23	Data Creation		Complete	9
25/5/23	Documentation	Creating Report of our Project.	Complete	9
TOTAL WEEKS	MODULE COMPLETED (YES / NO)	OVERALL PROGRESS (POOR / AVG / GOOD)	OVERALL COMMENT (POOR / AVG / GOOD)	PERCENTAGE MARKS ESTIMATE
LAB COORDINATOR's REMARKS				

- NOTE:**
1. This form is to be maintained in a file by lab coordinators for student - 3 of the team to track his / her progress.
 2. Lab coordinators must cross check and evaluate the PROGRESS ACHIEVED + it's DOCUMENTATION by student against the work done by student and note their own comments about student's performance.
 3. The lab coordinator must evaluate student's work for every lab from a score of 10 points.
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 5. The lab coordinator must IMMEDIATELY CONTACT MENTOR FACULTY of student in case of POOR PERFORMANCE or 2 CONTINUOUS ABSENCE from lab.
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PROJECT WEEKLY STATUS MATRIX (FOR LAB COORDINATORS) [Form-3D]

NAME OF STUDENT - 4		Mishu Jain			
NAME OF PROJECT		AI Based Personalised Electronic Gadgets Recommendation system			
OTHER TEAM MEMBERS		1. Vaibhav Jain	2. Sneha Khandelwal	3. Sonali Kumawat	
WEEK (TO-FROM)	WORKING ON MODULE	PROGRESS ACHIEVED	COMMENTS	MARKS (X / 10)	
22/1/23	Documentation	Gathering Information	good	9	
26/1/23	Documentation	Browsing	Complete as expected	9	
28/1/23	Documentation	Mode SRS of project	" " "	10	
17/2/23	Pre-Dev. Task	Rectify the Data	" " "	9	
20/2/23	Pre-Dev. Task	Studied about Dataset	" " "	8	
22/2/23	Data Processing	Process the data	Use of latest Tech.	9	
24/2/23	Data Processing	Filter the data	"	9	
1/3/23	Data Processing	Process data in data forms	"	10	
8/3/23	Exploration	Structuring Web Page	Complete	9	
12/3/23	Exploration	Explore Recommendation Engine	"	8	
19/3/23	Testing	Testing Emerging Modules	"	9	
15/4/23	Bug Fixes	Bug fixes on Modules	"	9	
20/4/23	Bug Fixes	Desired output	Complete	10	
TOTAL WEEKS		MODULE COMPLETED (YES / NO)	OVERALL PROGRESS (POOR / AVG / GOOD)	OVERALL COMMENT (POOR / AVG / GOOD)	PERCENTAGE MARKS ESTIMATE
LAB COORDINATOR'S REMARKS					

- NOTE:** 1. This form is to be maintained in a file by lab coordinators for student - 4 of the team to track his / her progress.
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5. The lab coordinator must IMMEDIATELY CONTACT MENTOR FACULTY of student in case of POOR PERFORMANCE or 2 CONTINUOUS ABSENCE from lab.
6. In case of absence, 00 / 10 MARKS will be awarded if the mentioned work is not presented in next lab by student.