

Project Title

An AI-Driven System for Automated Requirements Engineering from Unstructured Stakeholder Communication

Mentor
Name

Dr.Mitali Chugh

S.No	Rollnumber	Branch	Name	Role	Signature
1.	R2142230269	B.Tech CSE DevOps	Shivang Mangal	CI/CD & Deployment	
2.	R2142230278	B.Tech CSE DevOps	Devanshi Jain	NLP & Machine Learning	
3.	R2142231555	B.Tech CSE DevOps	Shreyash Shivhare	Frontend & Data Collection	
4.	R2142230271	B.Tech CSE DevOps	Sreyas Sharma	Backend & Data Collection	

Mitale
22/01/26

Project Mentor

Cluster Head

[illegible]

Synopsis Evaluation						
Rollno	Theoretical Understanding					Total Marks(20)
	Problem(4 Marks)	Algorithm(4 Marks)	Data/Data structure(4 Marks)	SWOT Analysis(4 Marks)	Area of Application(4 Marks)	

Panel Remark					
	Reviewer 1	Reviewer 2	Reviewer 3	Reviewer 4	Reviewer 5

[illegible]

Panel Remark					
	Reviewer 1	Reviewer 2	Reviewer 3	Reviewer 4	Reviewer 5

End-Term Evaluation							
Testing & Implementation							
RollNo	Theoretical Knowledge(5)	Computational Knowledge(5)	TestCase (10)	Soft Skills (10)	Report(5)	Core Computational Skills(15)	Total (50)

Panel Remark	Reviewer				
	Reviewer 1	Reviewer 2	Reviewer 3	Reviewer 4	Reviewer 5

Project Title	An AI-Driven System for Automated Requirements Engineering from Unstructured Stakeholder Communication						Mentor Name		Dr.Mitali Chugh																																																												
Abstract	Modern software projects face challenges in managing requirements due to their dispersion across unstructured communication sources such as emails, chats, and documents, making manual requirements engineering inefficient and error-prone. This project proposes an AI-driven automated requirements engineering system that applies natural language processing and machine learning techniques to extract, classify, cluster, prioritize, and summarize stakeholder requirements, enabling accurate and scalable requirement analysis.																																																																				
Objective	To design and develop an AI-driven system that automatically extracts, classifies, clusters, prioritizes, and summarizes software requirements from unstructured stakeholder communication, thereby reducing manual effort and improving accuracy in the requirements engineering process.																																																																				
Methodology	The system follows an Agile-based modular approach. Unstructured stakeholder data is collected and preprocessed by the backend, then analyzed using NLP and machine learning techniques for requirement extraction, classification, clustering, prioritization, and summarization. The processed results are delivered through a cross-platform desktop																																																																				
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Guideline: 1) A project group can be of maximum 4 members and no alteration in the group member will be entertained later.

Guideline: 2) Methodology should have following steps Step1: Literature Review; Step2: Identification Of Requirement (Type Of Data source, Amount Of Data, & Format of Data); Step3: Identification of Algorithm; Step4 : Comparative study; Step5: Design and Development of System/Architecture; Step 6: Implementation; Step7: Results

Guideline:3) Student should upload softcopies of all the documents (reports and power point presentations) in "Project Directory", 24 hrs prior to evaluation.

Guideline:4) Panel member will give feedback to individual on the scale of 1 to 5 and this scale will change for default i.e. 1 to 3 scale.

1: Poor

2: Average

3: Good

4: Excellent

5: Outstanding