

MAJOR / MINOR PROJECT ABSTRACT [Form - 1] (YEAR - 2025)

NAME OF LAB COORDINATOR: Dr. Priyanka Yadav

TITLE OF PROJECT: DocuCore : Text & Code Summariser in Cloud

PROJECT TRACK: (Tick the appropriate one / ones)

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

The project aims to develop a cloud based solution for document summarisation & cloud analysis using Large Language Model (LLM). The platform provided both extractive & abstractive summaries for text, while offering detailed analysis of code. The system is scalable & accessible due to its cloud deployment.

TOOLS / TECHNOLOGIES TO BE USED:

NAME OF TOOL / TECHNOLOGY	VERSION	SOFTWARE / HARDWARE	PURPOSE OF USE
Azure DevOps	LATEST	SOFTWARE	For CI/CD & deployment pipelines
Datavizick	LATEST	SOFTWARE	For data analysis & model training
CI/CD	LATEST	SOFTWARE	Continuous Integration & Deployment
Git	LATEST	SOFTWARE	Version Control & Collaboration
VScode	LATEST	SOFTWARE	Code Editing & development

PROPOSED PROJECT MODULES:

NAME OF MODULE	PROPOSED FUNCTIONALITY IN PROJECT
Text Summarisation	Provide extractive summaries of the document.
Code Based Analysis	Analyse code for complexity & suggest static code analysis
Cloud Integration & Pipeline	Ensure Scalable & Secure deployment of application.

TEAM MEMBER DETAILS:

STUDENT NAME	CLASS & GROUP	MOBILE No.	EXPERTISE AREA	ROLE IN PROJECT
Ganvita Sakbani	BITA - G2	9588023051	ML	Worked on Text Summarisation.
Hiteshi Adhikari	BITA - G2	6350166060	Static Analysis	Worked on Source Code Analysis
Abhishek Gupta	BITA - G1	8690603383	DevOps, CI/CD pipeline.	Worked on Cloud Deployment & automation

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]

MEMBER 1 <u>GARVITA SAKHRANI</u>		HANDLING MODULE <u>TEXT SUMMARISATION MODULE</u>	
NAME OF ACTIVITY	SOFT DEADLINE DATE	HARD DEADLINE DATE	DETAILS OF ACTIVITY (STORY)
Research NLP/LLM Model	Week 1	Week 2	Explore available LLM for Summarisation.
Data preprocessing for Summarisation.	Week 3	Week 5	Preprocess data to be fed into model for Summarisation.
Model Implementation	Week 6	Week 8	Implement chosen LLM Model.
Model Training & Tuning	Week 9	Week 10	Train & fine tune model to improve accuracy.
Testing & Evaluation	Week 11	Week 12	Test model, validate accuracy, make ^{refinement} .
Final Documentation.	Week 12	Week 13	Prepare required documents.
MEMBER 2 <u>HITESHI AGRAWAL</u>		HANDLING MODULE <u>CODE BASED ANALYSIS</u>	
NAME OF ACTIVITY	SOFT DEADLINE DATE	HARD DEADLINE DATE	DETAILS OF ACTIVITY (STORY)
Research Code Analysis tools	Week 1	Week 2	Explore tools & technologies for Code Complexity, bugs detection etc.
Tool Integration	Week 3	Week 5	Integrate selected tool into system for analysis.
Design Analysis Workflow	Week 6	Week 8	Design an automated process for code analysis.
Code Metrics & Analysis detection	Week 8	Week 10	Run tool to gather performance metrics & Analyse code complexity.
Report generation & visualisation.	Week 10	Week 10	Generate report with insights on code functionality & working.
MEMBER 3 <u>ABHISHEK GUPTA</u>		HANDLING MODULE <u>CLOUD INTEGRATION & AUTOMATION</u>	
NAME OF ACTIVITY	SOFT DEADLINE DATE	HARD DEADLINE DATE	DETAILS OF ACTIVITY (STORY)
Cloud Infrastructure Setup	Week 1	Week 2	Setup cloud environment for deployment & test.
CI/CD pipeline Setup	Week 3	Week 5	Establish CI/CD pipeline using scripts tool.
Security Configuration.	Week 5	Week 8	Configure security protocol for cloud resources.
Resource Scaling & Automation.	Week 8	Week 10	Implement auto scaling & automate resource management for efficiency.
Load testing & performance optimisation.	Week 10	Week 12	Conduct load testing to ensure scales effectively under heavy load.
MEMBER 4		HANDLING MODULE	
NAME OF ACTIVITY	SOFT DEADLINE DATE	HARD DEADLINE DATE	DETAILS OF ACTIVITY (STORY)

MENTOR'S NAME & SIGNATURE Mr. Prafulla Kumar Yadav Prafulla

- 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.

Form-3

PROJECT WEEKLY STATUS MATRIX (FOR PROJECT MENTORS)

NAME OF STUDENT - 1		GIARVITA SAKHRANI		
NAME OF PROJECT		DOCUCORE : TEXT & CODE SUMMARISER IN CLOUD		
OTHER TEAM MEMBERS		2. ABHISHEK GUPTA	3. HITESHI AGRAWAL	4.
WEEK (TO-FROM)	WORKING ON MODULE	PROGRESS ACHIEVED	COMMENTS	MARKS (X / 10)
13/1/25	Research	100 %	Verified	10/10
20/1/25	Exploration of ML	100 %	Verified	10/10
27/1/25	Data Collection	90 %	Verified	9/10
03/02/25	Data Preprocessing	90 %	Verified	9/10
10/02/25	Data Testing	100 %	Verified	10/10
03/03/25	Model Design	80 %	Verified	8/10
10/03/25	Model Implementation	90 %	Verified	9/10
17/03/25	Model Training	90 %	Verified	9/10
24/03/25	Model Testing	100 %	Verified	10/10
07/04/25	Model Evaluation	100 %	Verified	10/10
14/04/25	Testing	100 %	Verified	10/10
21/04/25	Integration	100 %	Verified	10/10
28/04/25	Deployment	100 %	Verified	10/10
TOTAL WEEKS	MODULE COMPLETED (YES / NO)	OVERALL PROGRESS (POOR / AVG / GOOD)	OVERALL COMMENT (POOR / AVG / GOOD)	PERCENTAGE MARKS ESTIMATE
13	Yes	Good	Good	
LAB COORDINATOR's remarks & Signature <u>Pravesh</u>				

- 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. 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.

Form-3
PROJECT WEEKLY STATUS MATRIX (FOR PROJECT MENTORS)

NAME OF STUDENT - 1		ABHISHEK GUPTA		
NAME OF PROJECT		DOCUCORE : TEXT & CODE SUMMARISER IN CLOUD		
OTHER TEAM MEMBERS		2. GARVITA SAKHANI	3. HITESHI AGRAWAL	4.
WEEK (TO-FROM)	WORKING ON MODULE	PROGRESS ACHIEVED	COMMENTS	MARKS (X / 10)
13/1/25	Research	90%.	Verified	9/10
20/1/25	Explore Cloud Provider	100%.	Verified	10/10
27/1/25	Cloud Setup	100%.	Verified	10/10
3/2/25	CI/CD pipeline	100%.	Verified	10/10
10/2/25	Security analysis	80%.	Verified	8/10
3/3/25	Security Configuration	80%.	Verified	8/10
10/3/25	Resource Scaling	80%.	Verified	8/10
17/3/25	Automation	100%.	Verified	10/10
24/3/25	Load Testing	90%.	Verified	9/10
7/4/25	Performance	90%.	Verified	9/10
14/4/25	Optimisation.	100%.	Verified	10/10
21/4/25	Testing	100%.	Verified	10/10
28/4/25	Integration	100%.	Verified	10/10
	Deployment			
TOTAL WEEKS	MODULE COMPLETED (YES / NO)	OVERALL PROGRESS (POOR / AVG / GOOD)	OVERALL COMMENT (POOR / AVG / GOOD)	PERCENTAGE MARKS ESTIMATE
13	Yes	Good	Good	

LAB COORDINATOR's remarks & Signature Pravur

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PROJECT WEEKLY STATUS MATRIX (FOR PROJECT MENTORS)

NAME OF STUDENT - 1		HITESHI AGRAWAL		
NAME OF PROJECT		DOCUCORE: TEXT & CODE SUMMARISER IN CLOUD		
OTHER TEAM MEMBERS		2. GIARULTA SAKHRAHI	3. ABHISHEK GUPTA	4.
WEEK (TO-FROM)	WORKING ON MODULE	PROGRESS ACHIEVED	COMMENTS	MARKS (X / 10)
13/1/25	Research	100 %.	Verified	10/10
20/1/25	Explore tools	100 %.	Verified	10/10
27/1/25	Data Collection	80 %.	Verified	8/10
3/2/25	Data Preprocessing	90 %.	Verified	9/10
10/2/25	Tool Integration	100 %.	Verified	10/10
3/3/25	Design Analysis	100 %.	Verified	10/10
10/3/25	Code Metrics	80 %.	Verified	8/10
17/3/25	Analysis Detection	90 %.	Verified	9/10
24/3/25	Report Generation	80 %.	Verified	8/10
7/4/25	Visualisation.	80 %.	Verified	8/10
14/4/25	Testing	100 %.	Verified	10/10
21/4/25	Integration	100 %.	Verified	10/10
28/4/25	Deployment	100 %.	Verified	10/10
TOTAL WEEKS	MODULE COMPLETED (YES / NO)	OVERALL PROGRESS (POOR / AVG / GOOD)	OVERALL COMMENT (POOR / AVG / GOOD)	PERCENTAGE MARKS ESTIMATE
13	Yes	Good	Good	
LAB COORDINATOR's remarks & Signature <u>Pranav</u>				

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