Instructions:

 This form is to be completed by each student doing Project registration to fulfill their capstone project requirement. It must be completed and submitted to your Guide. Each student must complete this form individually.

This report is to be completed during the starting of the semester, while the project

description report will be completed during end of the semester.

CAP4001- Capstone Project Proposal Report

Student Name	THARUN KUMAR K	
Register Number	21BCE8765	
Programme	B-TECH, CSE-CORE	
Semester/Year	FALL SEM (2024, 25), 4th year 1st SEM	
Name of the Guide	PROF. RAVI SANKAR BARPANDA	
Project Title	CROP RECOMMENDATION SYSTEM	

Team Composition: Provide the information below for each member of the **project team**. Include **all** project team members, not just those in your discipline or those enrolled for Capstone project. Please also include yourself!

Register Number	Name	B.Tech . Major	Specializatio n
21868765	THARUN KUMAR K	CSE	CORE
213668170	MOHATIT NEOG	CSE	Dala Analyti
218688603	NIKESH KUMAR	CSE	CORE
2186€7420	ANKIT SINGH HADA	CSE	CORE

- (a) Provide a summary of the project, including a description of the project and its requirements, the purpose, specifications, and a summary of the approach. If this is a continuing project, you may use and/or edit the same project description.
- (b) Describe the specific role and tasks that **you individually** will be completing as part of the design of the project. What **specific deliverables** will you produce?
- (c) Discuss in detail the specific approach that will be used to complete your portion of the design.
- (d) Describe the phases of the design process that will be incorporated and what work will be accomplished during those phases. (you may attach a Gantt Chart)

Outcomes:	Plan for demonstrating outcome:
 a) an ability to apply knowledge of mathematics, science, and engineering 	Ulilize ML algorithms to create recommendation and classification models, integrate mathematical models to enhance accuracy.
c) an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability	Develop a melbrite with A1 - diven features that consider such as economic affordability, environmental impact, and social usability for farmers.
 d) an ability to function on multidisciplinary teams 	Colloborale with express in agriculture, data science and software development to ensure the projects holistic success
 e) an ability to identify, formulate, and solve engineering problems 	actuacy by refining the dolased and infining algorithmic opposition
g) an ability to communicate effectively	Present findings though clear visualisations and accessible language on the website ensuing comprehensibility
 k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice 	Employ Tensor Flow, python, cloud based foots to build and deploy the A1 models and unebsite.

Realistic Constraints:

Discuss on the Realistic Constraints taken in to account for the Project:

· Foursing on Low- Cost solutions for small scale farmers.

· Ensuring that the model Considers sustainable faming practices. Engineering Standards: Discuss the Engineering Standards that will be followed and maintained in the Project:

Follow IEEE standards for Al and data management and w3 c standards for web development to ensure reliability of acceptability

Thaum Kunar K 4.04 Name and Signature of Student 1

Which Kiner Normal Signature of Student 3 Mohait Neg Name and Signature of Student 2 Ankit Lingh Hada

Name and Signature of Student 4

Guide Approval (Name, Signature with date)

Instructions:

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CAP4001- Capstone Project Proposal Report

Student Name	MOHAJIT NEOY	
Register Number	21BCE8170	
Programme	B. TECH, CLE - DATA ANALYTICS	
Semester/Year	FALL SEM (2021-25), 4th YEAR INJEM	
Name of the Guide	PROF. RAVI CANKAR BARPANDA	
Project Title	CROP RECOMMENDATION SYSTEM	

Team Composition: Provide the information below for each member of the **project team**. Include **all** project team members, not just those in your discipline or those enrolled for Capstone project. Please also include yourself!

Register Number	Name	B.Tech . Major	Specializatio n
21BLE 8170	MOHASIT NEOG	CSE	DATA ANALYTIC
21848765	THARUN KUMAR K	ese	LORE
21BUE 8 603	NIKESH KUMAR	ese	CORE
21 BLE 7 420	ANKIT SINUH HADA	CS€	CORE

- (a) Provide a summary of the project, including a description of the project and its requirements, the purpose, specifications, and a summary of the approach. If this is a continuing project, you may use and/or edit the same project description.
- (b) Describe the specific role and tasks that **you individually** will be completing as part of the design of the project. What **specific deliverables** will you produce?
- (c) Discuss in detail the specific approach that will be used to complete **your** portion of the design.
- (d) Describe the phases of the design process that will be incorporated and what work will be accomplished during those phases. (you may attach a Gantt Chart)

Outcomes:	Plan for demonstrating outcome:
 a) an ability to apply knowledge of mathematics, science, and engineering 	utilize ML algorithms to create secommendation and classifications models, integrate. mathematical models to enhance accuracy—
c) an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability	Develop a mebsite with Al-driver
d) an ability to function on multidisciplinary teams	Collaborate with exports in agriculture, deta science and settware development to ensure projects helib
e) an ability to identify, formulate, and solve engineering problems	Addons challenges like dakset bias and model accuracy by refining the dataset and
g) an ability to communicate effectively	Present findings through elect visualizations and accurable language on the website ensuring compo
 k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice 	Empley Pensor Flew, pythom, cloud based tooks to build and

Discuss on the Realistic Constraints taken in to account for the Project:

. Focusing on low-cost solutions for small scale farmers

that model considers sustainable farming practices · Ensuring

Engineering Standards: Discuss the Engineering Standards that will be followed and maintained in the Project:

Fottow IFEE Undereds for AI and data management and wisc standards for wes developments to ensure reliability and accessibility.

THARUN KUMAR K

K Of: Name and Signature of Student 1 -

NIKESH KUMAR

Name and Signature of Student 3

MOHATIT NEOY

mehajitning.

Name and Signature of Student 2

ANKIT SINGH HADA

Name and Signature of Student 4

Guide Approva (Name, Signature with date)

Instructions:

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CAP4001- Capstone Project Proposal Report

Student Name	NIKESH KUMAR		
Register Number	21 BCE 8603		
Programme	B Tech., CSE CORE		
Semester/Year	FALL SEM (2024,25),		m, ISTSEM
Name of the Guide	PROF. RAVI SHANKAR	BAR PAND	A
Project Title	CROP RECOMMENDA	fion sy	ISTEM
team. Include all proje	Provide the information below for each ct team members, not just those in your project. Please also include yourself!		
Register	A CARREST	B.Tech	Specializatio

Register Number	Name	B.Tech . Major	Specializatio n
21BLE 8765	THARUN KUMAR K	CSE	CORE
21 BUE 8170	MOHAJIT NEOG	CSE	Dasa Aralytics
21BUE 8603	NIKESH KUMAR	CSE	CORE
21BLE 7420	ANKIT SINGH HADA	CSE	CORE

- (a) Provide a summary of the project, including a description of the project and its requirements, the purpose, specifications, and a summary of the approach. If this is a continuing project, you may use and/or edit the same project description.
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- (d) Describe the phases of the design process that will be incorporated and what work will be accomplished during those phases. (you may attach a Gantt Chart)

Outcomes:	Plan for demonstrating outcome:
an ability to apply knowledge of mathematics, science, and engineering	Utilize MI algorithms to weate recommendation and classifications in adels, integrate mathematical models to enhance accuracy
c) an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability	Develop a website with AI-duiver feetures that consider which as economic affordability
d) an ability to function on multidisciplinary teams	Collaborate with experts in agriculture, data science and software development to encure projects realistic
an ability to identify, formulate, and solve engineering problems	Address chillenges like destaret his land medel accuracy by supriving the destaret and improved algorithms appearach
g) an ability to communicate effectively	Present findings through clear usualization & occurred language on the walkite en wing Congreham
 k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice 	tropley Tensor flow, python, cloud based tools to build and deploy the AI

Realistic Constraints:

Discuss on the Realistic Constraints taken in to account for the Project:

• Fouring on low-cost solutions for small scale formers.

• Ensuring that model uniders sustainable forming fracties

Engineering Standards: Discuss the Engineering Standards that will be followed and maintained in the Project:

Jellow IEEE islandards for AIA dota management and wisc islandards for web development to envir reliability and occuribility.

THARUN KUMAR K

K. O.f.

Name and Signature of Student 1

NIZKESH KUMAR

Nikuh Kuman Name and Signature of Student 3

MONAJS9 NEOG

Name and Signature of Student 2

ANKIT SINCOH HADA

Name and Signature of Student 4

Guide Approval (Mame, Signature with date)

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CAP4001- Capstone Project Proposal Report

Student Name	ANKIT SINGH HA	DA	
Register Number			
Programme	B.TECH, CSE- CO	RE	
Semester/Year	FALL SEM (2024-		er 1st sem
Name of the Gu			
Project Title	CROP RECOMME	NDATION	SYSTEM
team. Include al	tion: Provide the information below for I project team members, not just those stone project. Please also include your	in your discipling	of the project ne or those
Register Number	Name	B.Tech . Major	Specializatio n
218 € 8765	THARUN KUMAR K	CSE	(ORE
21BCE8170	MOHAJIT NEOG	cse.	Dala Analytic
21BCE 8603	NIKESH KUMAR	CSE	CORE
21B(E 7420	ANKIT SINCTH HADA	CS €	CORE

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Outcomes:	Plan for demonstrating outcome:
 a) an ability to apply knowledge of mathematics, science, and engineering 	utilize ML algorithms to create pecommendation and
c) an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability	features that consider such as economic affordability, environmental impact, and social usability for farmers.
d) an ability to function on multidisciplinary teams	collaborate with experts in agriculture, data science and software development so ensure the project holistic.
 e) an ability to identify, formulate, and solve engineering problems 	Address challenges like defeat bias and model accuracy by refining the delast and improving algorithms.
g) an ability to communicate effectively	Present findings through clear visualisation and access languige on the website answring compressibility
 k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice 	Emplay Tensor Flow, python, cloud based tools to build and deplay the Al modely

Realistic Constraints:

Discuss on the Realistic Constraints taken in to account for the Project:

· Focusing on low-court solution for small stole farmers. · Ensuring that the model considers sustainable farming practices.

Engineering Standards: Discuss the Engineering Standards that will be followed and maintained in the Project:

follow IEEE standards for AI and data management and W3 (
slandards for web development to ensure reliability, and
assectionist.

THARUN KUMAR K east

Name and Signature of Student 1 NIKE SH KUMAR

Nitach Kunar

Name and Signature of Student 3

HOJA STEAHOM

Name and Signature of Student 2

ANKIT SINGH HAPA

Name and Signature of Student 4

Guide Approval (Mame, Signature with date)