Title: Project Description / Project Concept Note Form No: IQAC-112

SRN.No.	

VISHWAKARMA UNIVERSITY, PUNE

University Grants Commission (UGC) Approved State Private University

Examination: Project-2			
Academic Year	*2023-2024*	Pattern	*2021-22*
Faculty	*Science and Technology*	Course Name	*Artificial Intelligence*
Department	*Computer Science*	Course Code	*BSCCS21403*
Programme	*B. Sc. CS*	Semester	*IV*
Division	*A*	Course Teacher	*Dr. Anupriya Kamble*
Maximum Marks	*15*	Total No. of Pages	*2*
Project Start Date	*13/3/24*	**Project End Date**	*22/3/24*

Instructions to Candidates: -

1. Students need to strictly adhere to the project deadlines
2. Project content should be unique and plagiarism is strictly prohibited.
3. Submission of project report in a prescribed format is mandatory.

Project Title: Prediction in a database using machine learning algorithms.

Project Objective: To provide students with a comprehensive understanding of supervised and unsupervised learning algorithm and implementing it to a database.

Project Outcome: Students will possess the knowledge of what are supervised and unsupervised algorithms and how it can be implemented on a database for the prediction.

	Project Description	**Marks**	**CO**	**BTL**
1	**Problem Definition/Identification**	15	3	3,4
	A machine learning algorithm has to be applied to a selected database so as to do a prediction related to the database.			
2	**Methodology**			
	Step 1 – Search for a freely available authenticated database on web. Step 2 – Preprocess the data as per need for the testing phase. Step 3 – Study the database which machine learning technique i.e. supervised or unsupervised algorithm can be applied to the database. Step 4 – List the machine learning algorithms that can be applied to the dataset. Step 5- Write a code of machine learning algorithm taking the input file .xlsx/.csv as the input. Step 6- Run the program and check the output.			
3	**Implementations**			
	• Search for a text and/or statistical authenticated database. • Download the database by referring the information of the database. • Preprocess the Database according to the need. • In preprocessing, chose the column for prediction as per the need of the study.			

	• Get the preprocessed data in .xlsx/.csv file. • Type a code for the machine learning algorithm that are applicable taking the input as .xlsx/.csv file in Python VS Code or Jupyter. • Run the code and check the classification result of the testing phase. • According to the database and its objective list the conclusion and future scope.			
4	**Output & Evidence**			
	Draft a Project Report in a proper format given in the sample consisting of the following contents: 1) Introduction 2) Methodology 3) Implementation 4) Conclusion 5) References			

*CO: Course Outcome, BTL: Bloom's Taxonomy Level

---- End of Question Paper ----

Course Outcomes

CO No.	Statement
1	Explain basic concepts in AI such as agent and environment
2	Use different search techniques in AI
3	Represent knowledge using appropriate methods.
4	To study Artificial Neural Networks and Genetic Algorithms.
5	Apply NLP techniques to real world problems

Bloom's Taxonomy Level (BTL)

BTL No.	BTL	Statement
1	Remember	Recall facts and basic concepts
2	Understand	Explain ideas or concepts
3	Apply	Use information in new situations
4	Analyze	Draw connections among ideas
5	Evaluate	Justify a stand or decision
6	Create	Produce new or original work