HINDUSTHAN INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai, Accredited with "A" Grade by NAAC and Accredited by NBA (Aero, CSE, ECE & Mech.)

Valley Campus, Pollachi Main Road, Coimbatore 641 032.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Innovations in Teaching Learning Process

Name	Ms P.Umamaheswari
Subject code & Title	20CS501 – Machine Learning.
Academic year & Semester	2023-2024 & V

Problem-Based Learning

Objectives: Problem-Based Learning (PBL) is a teaching method in which complex real-world problems are used as the vehicle to promote student learning of concepts and principles as opposed to direct presentation of facts and concepts.

Description:

Step 1: Clarifying Unfamiliar Terms

Unclear terms and concepts in the problem description are clarified, so that every group member understands the information that is given.

Step 2: Problem Definition

The problem is defined in the form of one or more questions. The group has to agree upon the phenomena that need to be explained.

Step 3: Brainstorm

The preexisting knowledge of group members is activated and determined. This process entails the generation of as many explanations, ideas, and hypotheses as possible. The ideas of all group members are collected, without critical analysis.

Step 4: Analyzing the Problem

Explanations and hypotheses of the group members are discussed in depth and are systematically analyzed. Ideas from the brainstorm are ordered and related to each other.

Step 5: Formulating Learning Goals

Based on contradictions, obscurities, and ambiguities from the problem analysis, questions are formulated that form the foundation for the study activities of the group members. In short, it is determined what knowledge the group lacks, and learning goals are formulated on these topics.

Step 6: Self-Study

In the self-study phase, group members search for relevant literature that can answer the questions in the learning goals. After studying this literature, group members prepare themselves for reporting their findings in the next tutorial meeting.

Step 7: Reporting

After reporting what sources group members have used in their self-study activities, a discussion of the learning goals takes place based on the studied literature. Group members try to synthesize what they have found in different sources. Step 6: self-study In the self-study phase, group members search for relevant literature that can answer the questions in the learning

Outcomes: Students enjoy problem based learning more than student following a more traditional curriculum. They study more real word problem problems and make a case study about the problem with solution.
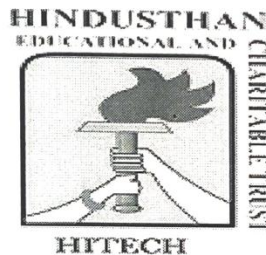
Topic:
1. Wireless Power share Phone Battery Charging.

Samples:

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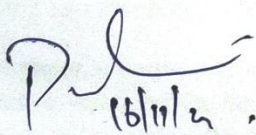Valley Campus, Pollachi Main Road, Coimbatore 641 032.

Department of Computer Science and Engineering

Case Study

On

WIRELESS POWERSHARE PHONE BATTERY CHARGING

Name Of The Student :	IMAYA SRI A
Register Number :	720821103040
Branch/Section :	III CSE A
Academic Year	2023-2024

Staff-in charge

HOD CSE

Topic:

2. Dengue Fever Prediction using Machine Learning

Samples:

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Department of Computer Science and Engineering

Case Study

On

Dengue Fever Prediction Using Machine Learning

Name Of The Student :	Syed Althaf Hussain. S
Register Number :	720821103306
Branch/Section :	III Year CSE / B
Academic Year	2023-2024

Staff-in charge

HoD/ CSE

Topic:

   3. House Economy Prediction using Machine Learning.

Samples:

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Department of Computer Science and Engineering

Case Study

On

House Economy Prediction Using Machine Learning

Name Of The Student :	Uday Ram S
Register Number :	720821103115
Branch/Section :	III Year CSE / B
Academic Year	2023-2024

Staff-in charge

HoD / CSE

Photos: Review on Problem Based Learning with different problems using Machine Learning.

🅖 GPS Map Camera

Malumichampatti, Tamil Nadu, India
VXWW+3PR, Malumichampatti, Tamil Nadu 641050, India
Lat 10.89466°
Long 76.997149°
14/10/23 09:52 AM GMT +05:30