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Google Forms

Thanks for filling in this form: Project-Based Learning (PBL) Report

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Project-Based Learning (PBL) Report

Before you begin filling out this form, please make sure you have the following items ready:

- Your day-wise notes for all stages of Design Thinking — *Empathize, Define, Ideate, Prototype, and Test*
- Screenshots of your innovation
- Screen recordings showcasing your innovation's working model

- Images of your innovation created during the Day 2 take-home task

This form is designed to capture your reflections, ideas, and learnings from the innovations you developed as part of the **IBM SkillsBuild PBL activity**. Please take 5–10 minutes to complete it thoughtfully and honestly.

Email *

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Name *

Indumathi C

Email ID (as per IBM Skills Build) *

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Phone number *

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Trainer name *

- (●) Aparna .R
- ( ) Sanjai .M

Raju .P

College Name *

university college of engineering kanchipuram

Qualification (Degree) *

B.E. Computer Science and Engineering

Day 1

Design Thinking Process Step 1 & 2: Empathise & Define

Step 1: Understanding the Need *

Which problem am I trying to solve?

I am trying to solve the problem of identifying students who are at risk of dropping out early by using academic and attendance data, so timely support can be provided.

Step 2: What is the problem?

The problem I want to solve in **one clear sentence**

[You can try a prompt like this: "*I am ideating a solution for <enter your problem in detail> Convert this problem into a single clear sentence which I can share to an audience"]*

I am ideating a solution to predict students who are likely to drop out of their studies by analyzing attendance, academic performance, and engagement patterns.

Why is this problem important to solve? *

[You can try a prompt like this: "*Draft 1-2 lines on why this problem is important to solve. Support this with evidence using relevant data points"]*

Student dropouts lead to loss of educational opportunities, increased unemployment, and financial stress for families.
Studies show that poor attendance and low academic performance are major indicators of dropout risk, and early intervention can significantly improve student retention and success.

Take-home task *

Ask 2–3 people (you can speak to your family members, friends, teachers, trainers) what they think about this problem. Write down surprising or new things you learn below.

I spoke with a teacher, a friend, and a family member about this problem.
Some surprising and new insights I learned:
Teachers mentioned that students usually show warning signs months before dropping out, but these signs are often missed.
A friend shared that personal and financial stress affects attendance more than lack of interest in studies.
A family member felt that early guidance and counseling could have helped many students stay in school.
These discussions showed that early prediction and support can make a real difference in preventing student dropouts.

Day 2

Design Thinking Process Step 3: Ideation

Step 3: Brainstorming solutions *

List **at least 5 different solutions** (wild or realistic)

[You can try a prompt like this: "*I am ideating solutions for <enter your problem in detail> Suggest 5 unique solutions for this problem, which I can easily accomplish in 2 days using free, open-source mobile-friendly AI tools"]*

1.AI-Based Dropout Risk Dashboard
2.Automated Early Warning Alert System
3.Student Self-Assessment Chatbot
4.Predictive Excel/CSV Analyzer Tool
5.Personalized Improvement Recommendation Tool

Step 4: My favourite solution: *

Automated Early Warning Alert System

Step 5: Why am I choosing this solution?

*

I am choosing this solution because: It is simple, practical, and impactful It can be built quickly using free, open-source AI tools Teachers can easily visualize risk levels Early detection allows timely intervention, reducing dropout rates It is mobile-friendly and scalable for schools and colleges

Take-home task *

Generate the image of your solution and how it will look (eg: “a bag that charges your phone while you walk”)

Attach the image in this box below:

[You can try a prompt like this: “*I am ideating a solution for <enter your problem in detail> I have selected a solution which includes <enter your solution description> Generate an image for this solution]*

Submitted files

Screenshot (60) - Indumathi C.png

Question

Tools you can use for Day 2

ChatGPT/Perplexity AI:
You can use these tools to compare your solutions and choose the most effective one

AI Tools you can use
for the take-home task:

Canva AI/CoPilot
AI/Meta AI: Use these mobile-based tools to generate images for the solution they want to design

Day 3

Design Thinking Process Step 4 & 5: Building & Testing my Prototype

Step 6: Prototype – Building my first version *

What will my solution look like?

[Take inspiration from the image generated on Day 2 and describe the solution]

A mobile-friendly AI dashboard showing student dropout risk using color indicators. It displays attendance, marks, alerts, and basic improvement suggestions.

What AI tools will I need to build this?

[You can try a prompt like this: "*I am ideating a solution for <enter your problem in detail> I have designed a solution which includes <enter your solution description> What open-source, free AI tools that I can use to build this solution? The tools should be easily available and accessible on my mobile. Do not recommend tools which requires cost or subscription"]*
*

Free, open-source AI tools for data analysis, prediction, and UI design.
All tools are easy to access on mobile and do not require payment.

Top AI tools I finally selected to build this solution? [Eg: Claude AI, Grok AI, Chatling AI]

Write it in 5 lines as 5 points
*

1.ChatGPT – for prediction logic and explanations
2.Perplexity AI – for research and validation
3.Google Colab – for running AI models

4.Canva AI – for dashboard design
5.Microsoft Copilot – for coding support

Step 7: Test – Getting Feedback

Who did I share my solution with? [You may share it with your trainer, peers or even AI] *

I shared my solution with my trainer, classmates, and an AI tool. They reviewed the idea and provided feedback.

What positive feedback did I receive? *

The solution is practical and useful for early student support. The dashboard is simple and easy to understand

What feedback did I receive for improvement? *

Include more student data for better accuracy. Improve visual design and recommendation clarity.

Take-home task

Record your solution and test feedback in voice notes.
Upload your voice notes, images and your solution/model on GitHub

AI Tools you can use for Step 6-7:

ChatGPT/Perplexity AI/Claude AI/Canva AI/Chatling AI/Figma AI: You can use these tools to build solutions/models or mock-up dummy prototypes

Day 4

Presenting & Reflecting on my Innovation

Step 8: Presenting my Innovation *

Final Project Title:

AI-Based Student Dropout Risk Prediction System.

Key points of my presentation

*

[You can try a prompt like this with attachment/screenshot of your solution: "*I am ideating a solution for <enter your problem in detail> I have selected a solution which includes <enter your solution description> I tested the solution with <enter details of who tested your solution> and they gave the following feedback <enter feedback given by the testers> Generate a 1-minute pitch document with following headings: project title, problem statement, my innovation, feedback I received from users, impact of my innovation. Add the attached image in the pitch document"]*

Explained the dropout problem and the AI-based risk prediction dashboard.
Highlighted alerts, prevention suggestions, and feedback from users.

Step 9: Reflections *

What did I enjoy the most during this project-based learning (PBL) activity?

I enjoyed designing a real-world AI solution for an education problem.
The process of turning an idea into a prototype was exciting.

Upload images of your day-wise notes/responses of all questions
You can also combine your images into one PDF file and upload

*

Submitted files

Screenshot (60) - Indumathi C.png

Upload Mini Project link *

https://ml-student-dropout-p-2q9k.bolt.host