Guidelines

- Kindly use the given template for submitting your project (Make a copy of the template)
- One team is only required to submit one project.
- The ideal size of the presentation should not be more than 10 slides.
- You are welcome to add as many POCs and design concepts to support your project.
- The project should be feasible and the team members should be capable enough, to come up with the prototype of the same idea, if required.
- Projects using Google developer technologies like Gemini APIs & building projects on IDX platform will earn additional points.
- In case of queries, kindly reach out to us at solutionchallengesupport@hack2skill.com

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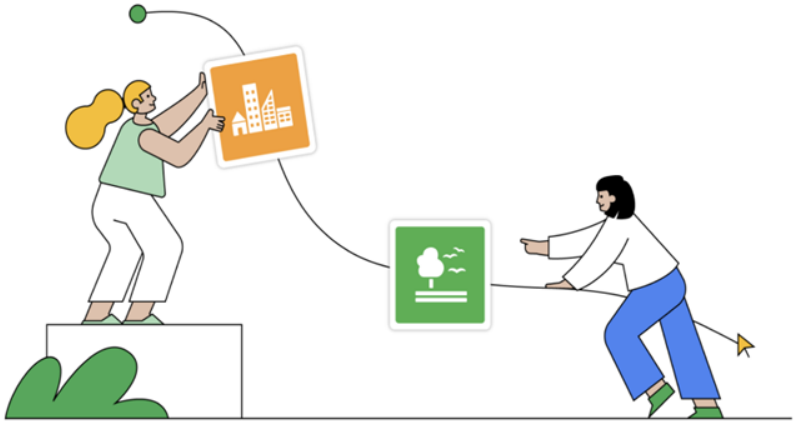
Solution Challenge



Team Details

a. Team name: ECE DAZZLERS
b. Team leader name:KRITHIK GOKUL S
c. Problem Statement: QUALITY EDUCATION

Solution Challenge

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Brief about your solution:-

EduBridge is a machine learning-powered web app that uses adaptive learning, performance analytics, and inclusive resources to provide equitable learning opportunities.

Opportunities

How different is it from other ideas?
- Uses ML for personalization
- Multilingual and accessibility features
- Gemini API for smart explanations

How will it solve the problem?
- Adaptive content based on performance
- Inclusive access for underprivileged students

USP:
- AI-driven feedback and smart summaries

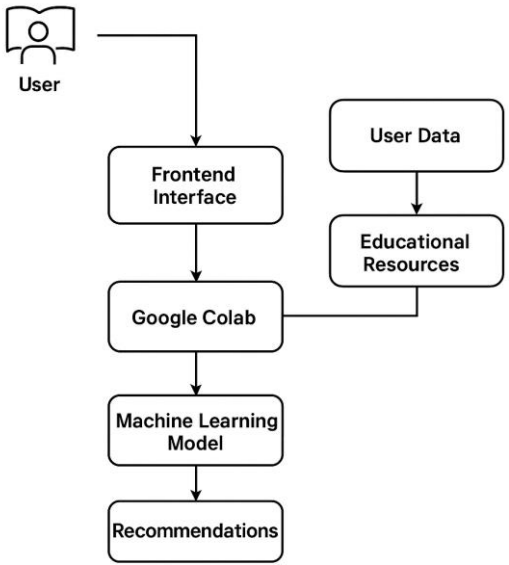
List of features offered by the solution

- Personalized learning paths
- Real-time performance feedback
- Multilingual support
- Voice-to-text and text-to-speech
- Smart content via Gemini API

Process flow diagram or Use-case diagram:-

Block Diagram:

1. User Input
2. ML Model in Colab
3. Personalized Plan
4. Feedback Loop
5. Adaptive Recommendation



Wireframes/Mock diagrams of the proposed solution (optional)
Technologies:
Streamlit Frontend Example:
Python Code:-

```
import streamlit as st
name = st.text_input("Name")
subject = st.selectbox("Subject", ["Math", "Science"])
if st.button("Get Plan"):
    st.success(f"Your plan is ready, {name}!")
```

Architecture diagram of the proposed solution

Technologies:

- Google Colab (ML model)
- Streamlit (Frontend)
- Gemini API (Smart content)
- Firebase (User data)
- Python, HTML/CSS

Snapshots of MVP

MVP Description:
- User input on Streamlit UI
- Google Colab generates learning path
- Firebase stores user progress
- Gemini API gives explanations

Future Development

- Offline support for rural areas
- AR/VR-based modules
- NLP for doubt-solving
- Global educational collaborations

References

- UNESCO SDG4 Report
- Google Gemini API Docs
- Streamlit Docs
- Research Papers on AI in Education

Provide links to your:

1. GitHub Public Repository:https://github.com/krithikgokuls/Quality-Education
2. Demo Video Link (3 Minutes):- https://www.youtube.com/watch?v=_kZVMsMt86o
3. MVP Link:https://github.com/krithikgokuls/Quality-Education/blob/main/mvp.txt

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Solution Challenge

Thank you