Personalized Exam Preparation Companion

Introduction

- Out of 896, 520 students who took national entrance exam, only 29, 909 passed the exam.

- Developing an Innovative Personalized Exam Preparation Platform.

- Harnessing AI and Advanced Analytics for Education Enhancement.

- Aiming to revolutionize the education experience for students
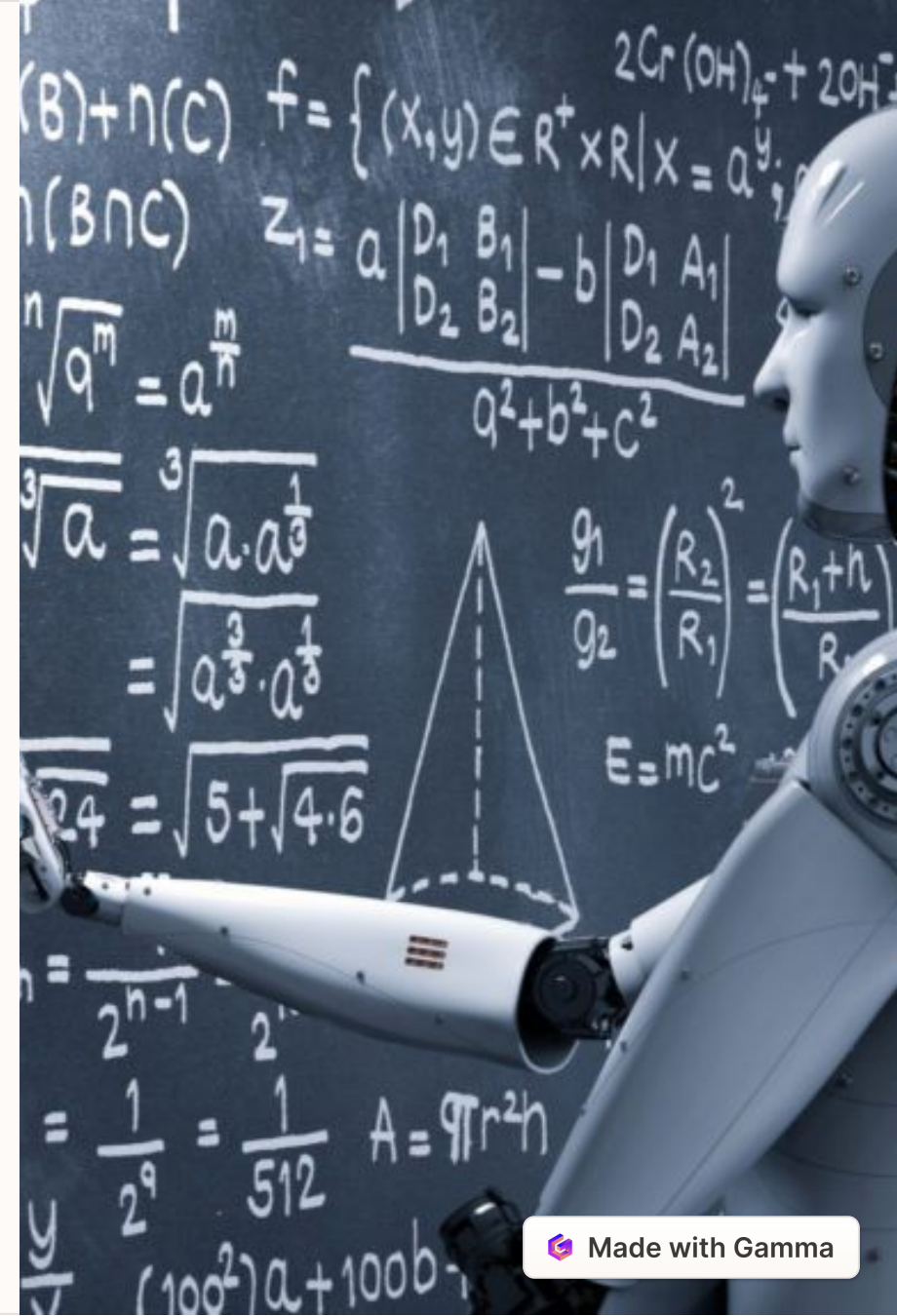
Existing System

Traditional Study Guides and Textbooks

Common educational resources like text and reference books.

Generic Practice Exams

Standardized exam books for general preparation.

Websites Offering Past Exam Papers

Platforms compiling previous years exams.

Problem Statement

1 **Absence of Immediate Assistance** 💬

Studying can be frustrating without someone to help clarify concepts .

2 **Lack of Personalization** 📊

One size does not fit all in education.

3 **Ineffective Progress Tracking** 📈

Students need to know how they are progressing to measure their chances of success.
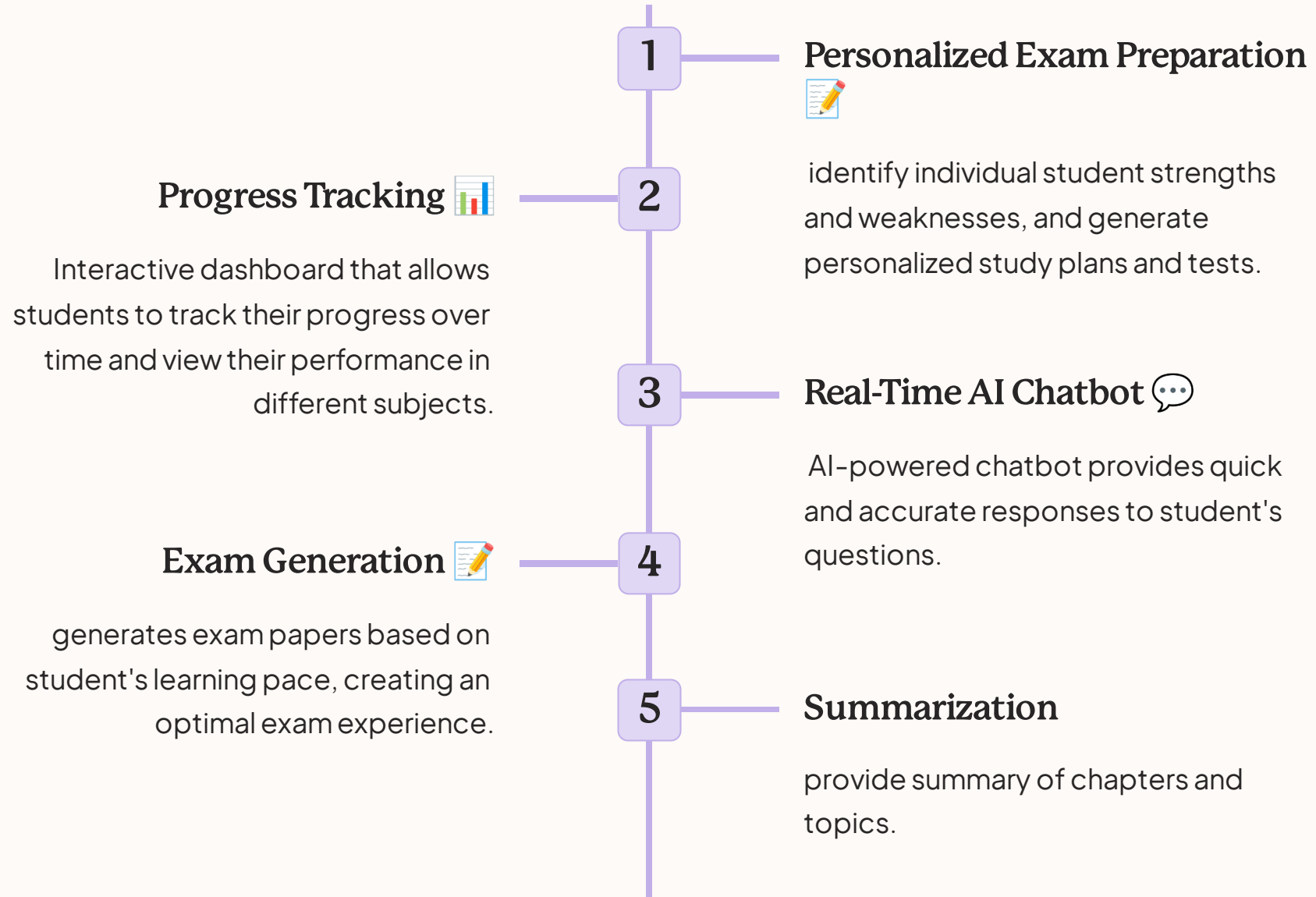
The Objective

1 **General Objective** 🎯

Develop an AI-powered platform for Ethiopian students, enhancing their pass rates and confidence in exam preparation.
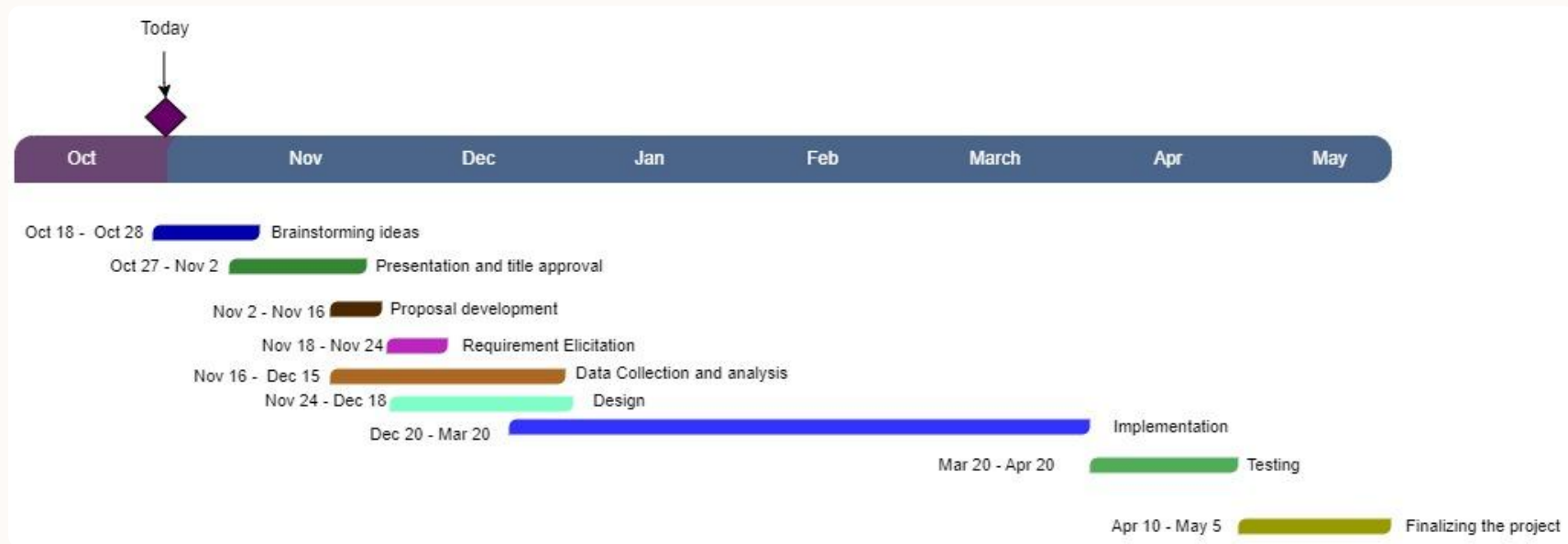
2 **Specific Objectives** 📚

- AI-Driven Content Recommendations
- Interactive AI Chatbot
- Advanced Data Analytics
- Exam Generation

The Proposed System

1 — **Personalized Exam Preparation** 📝

identify individual student strengths and weaknesses, and generate personalized study plans and tests.

Progress Tracking 📊 — **2**

Interactive dashboard that allows students to track their progress over time and view their performance in different subjects.

3 — **Real-Time AI Chatbot** 💬

AI-powered chatbot provides quick and accurate responses to student's questions.

Exam Generation 📝 — **4**

generates exam papers based on student's learning pace, creating an optimal exam experience.

5 — **Summarization**

provide summary of chapters and topics.

Project Timeline

1 Tools

- Python for machine learning
- Tensorflow
- Flutter
- Node JS
- Jira
- Google doc

2 Deliverables

- Mobile Application
- Machine Learning Models
- Testing
- Documentation

Transforming Our Education

"Education is the most powerful weapon which you can use to change the world."

Nelson Mandela