

# AI-POWERED SKILL CLUSTERING & PERSONALIZED LEARNING PATHS

Team Innovators

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# AI-Powered Skill Clustering & Personalized Learning Paths

## What problem are we solving?

- Many students & professionals struggle to find personalized learning paths, mentorship, and career guidance.
- Existing platforms (Udemy, Coursera) lack AI-driven mentorship and skill-based course recommendations.

## Why is this problem important?

- 65% of students are unsure about what skills they need for their career.
- 80% of learners drop out of online courses due to a lack of mentorship & guidance.
- Companies struggle to find skilled employees despite the abundance of online courses.

## Who is the target audience?

- Students & Graduates looking for guided learning & career advice.
- Working Professionals looking to upskill & switch careers.
- Educational Institutes wanting to improve student learning outcomes.
- Mentors & Industry Experts looking to share knowledge & earn income.

# Solution Overview

## What is our solution?

EduBoost AI is an AI-powered learning & mentorship platform that provides:

- AI-Generated Learning Paths based on a user's skills & interests.
- Expert Mentorship Matching for personalized career guidance.
- Smart Course Recommendations from Udemy & other platforms.
- Progress Tracking & Certification to help learners stay on track.

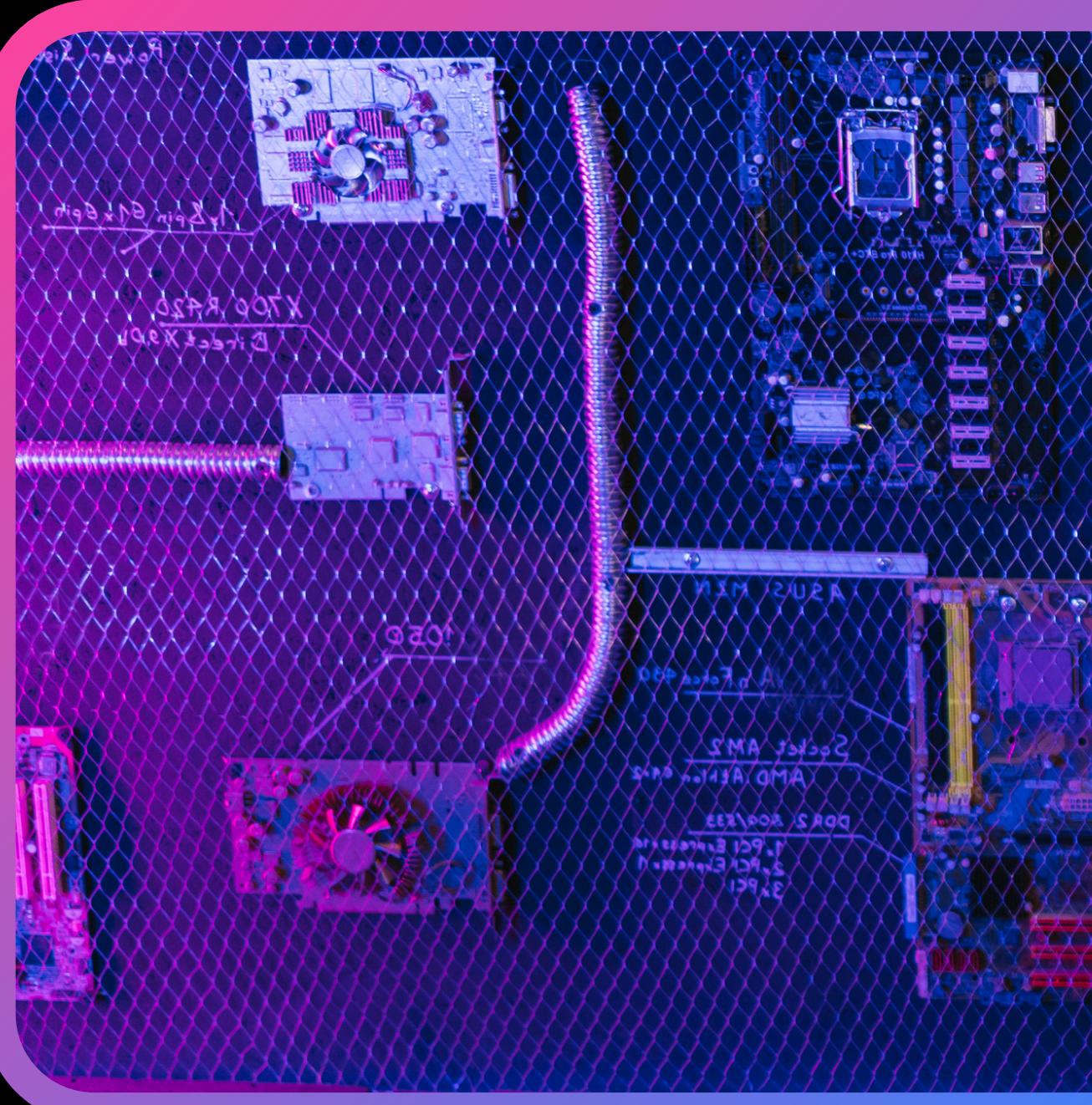
## Key Features & How It Solves the Problem

- AI Mentor (using Google Gemini API) answers learning & career queries.
- Skill-Based Mentor Matching connects learners with the right experts.
- AI-Powered Course Suggestions help users choose the best courses.
- Community Forum for discussions & knowledge sharing.

# Solution Overview

## What makes EduBoost AI unique?

- AI-Powered Personalization – Learning paths tailored for each user.
- Mentor Booking System – Seamless 1-on-1 mentoring via Calendly Integration.
- Skill Gap Analysis – AI identifies what skills a user needs to acquire.



# Market Size & Potential

**Global EdTech Market: \$200 billion+ by 2027 which is growing at 12%+ CAGR**

## Monetization & Revenue Model

- Freemium Model – Free AI mentorship, paid premium mentor sessions.
- Subscription Plan – Access to exclusive AI career guidance & certifications.
- Affiliate Marketing – Earn commissions from Udemy course purchases.
- B2B Sales – Partner with colleges & companies to provide learning solutions.



# TECHNOLOGY & IMPLEMENTATION

## Tech Stack

- Frontend: HTML, CSS, JavaScript (Vanilla + AJAX)
- Backend: FastAPI (Python)
- AI Models: Google Gemini API (for AI mentorship & skill prediction)
- Database: CSV-based storage (students, mentors, courses)
- APIs: Udemy API (for course recommendations), Calendly API (for mentor booking)

## Development Progress

- Login & Signup System
- AI Chatbot
- Future Trending Skill Prediction Model
- Mentor Booking System

## Roadmap

- Phase 1: Beta Testing & User Feedback
- Phase 2: Mobile App Development
- Phase 3: AI-Powered Resume Reviews & Career Suggestions



# PROTOTYPE

**EduBoost AI**

"Unlocking Your Digital Potential!"

**EchoMentor** is an AI-powered learning and mentorship platform that helps users navigate their careers. We provide personalized skill recommendations, job market insights, and mentorship connections to help you succeed in a rapidly evolving world.

**Popular Courses**

**EduBoost AIchatbot**

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All Courses Development Design

- MySQL** MySQL Gist about course 60 hours ₹8000 Pay ₹8000
- Web Development** Web Development Gist about course 120 hours ₹1200 Pay ₹1200
- Python** Python Gist about course 190 hours ₹3000 Pay ₹3000
- Cyber Security** Cyber Security Gist about course 190 hours ₹3000 Pay ₹3000

what is machine learning

Machine learning is a subset of artificial intelligence that focuses on the development of algorithms and statistical models that enable computers to perform tasks without explicit instructions. Instead, these systems learn from data, identifying patterns and making decisions based on that information. It's widely used in various applications, such as image recognition, natural language processing, and predictive analytics. If you have more specific questions about machine learning, feel free to ask!

how should i start learning machine learning

Starting to learn machine learning can be an exciting journey! Here are some steps you can follow:

1. **Understand the Basics**: Familiarize yourself with fundamental concepts in statistics, linear algebra, and calculus, as these are essential for understanding machine learning algorithms.
2. **Learn Programming** : Python is the most popular language for machine learning. Make sure you are comfortable with Python and its libraries like NumPy, Pandas, and Matplotlib.
3. **Online Courses** : Consider enrolling in online courses. Platforms like Coursera, edX, and Udacity offer excellent courses on machine learning.
4. **Hands-On Practice** : Work on projects and datasets. Websites like Kaggle provide

Message...

# Future Scope & Impact

## Future Enhancements

AI Resume Analyzer – Improve CVs based on job trends.

Corporate Mentorship Integration – Connect learners with industry professionals.

Live Webinars & AI Workshops – Interactive learning sessions.

Blockchain-Based Certifications – Secure & verifiable credentials.

## Real-World Impact

- Improves student employability with structured learning.
- Makes mentorship accessible to anyone, anywhere.
- Bridges the skill gap for industries hiring talent.

# Conclusion

EduBoost AI is an AI-driven learning and mentorship platform that personalizes skill development through smart course recommendations and expert guidance. By bridging the gap between learners and mentors, it ensures structured, scalable, and impactful learning. With future advancements like AI-powered resume analysis and blockchain-based certifications, EduBoost AI aims to revolutionize education. We seek support to expand our AI capabilities and industry collaborations, making mentorship and skill-building accessible to all. Together, we can empower individuals to shape their careers with the right skills and guidance.