

## ID CARD

- TEAM

SpamBots  
Returns

- TRACK

Education

- YEAR

2024



# EDU-PACE

## TAILORING EDUCATION

Analysing and Anticipating  
Student Performances





# THE PEOPLE BEHIND IT



## Shivam Dwivedi

**"Tech Guy Who Understands A Little Bit  
of Everything"**

B.Tech 2025  
Computer Science + Design (IIIT DELHI)  
Founder @ The Dot Store

Ex. President, Mentor @ E-Cell, IIITD  
Presenter and Top 3 @ IndoML by IIT Bombay  
Delegate Relations Team @ Harvard's Conference



## Ishan

**"Tech guy with lot of Non-Tech skills"**

B.Tech 2025  
Computer Science + Bioscience  
IIIT DELHI

Team Lead @ E-Cell Outreach Team  
Founder @ Codinity  
Educator @ Paradise Edu.

# THE WORLD'S SO SAD

- # Mass Illiteracy
- # Unemployment
- # Systematic oppression
- # War
- # Genocide
- # Racism
- # Sexism
- # Income inequality
- # Homelessness
- # Food wastage
- # Climate change
- # People are seeking moral wisdom from Katy Perry's lyrics
- # Companies are capitalizing on the most animalistic impulses of the public



PRESENTS

**EDU-PACE**

**TAILORING EDUCATION**

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## A FEW EYE-OPENERS ABOUT EDUCATION

### Diversity in Student Backgrounds

Students come from a myriad of backgrounds, each bringing unique socio-economic, cultural, and educational experiences. These diverse backgrounds significantly influence their learning styles, access to resources, and overall academic performance. Recognizing and addressing these diverse starting points is crucial for equitable educational outcomes.

### Varied Learning Paces and Styles

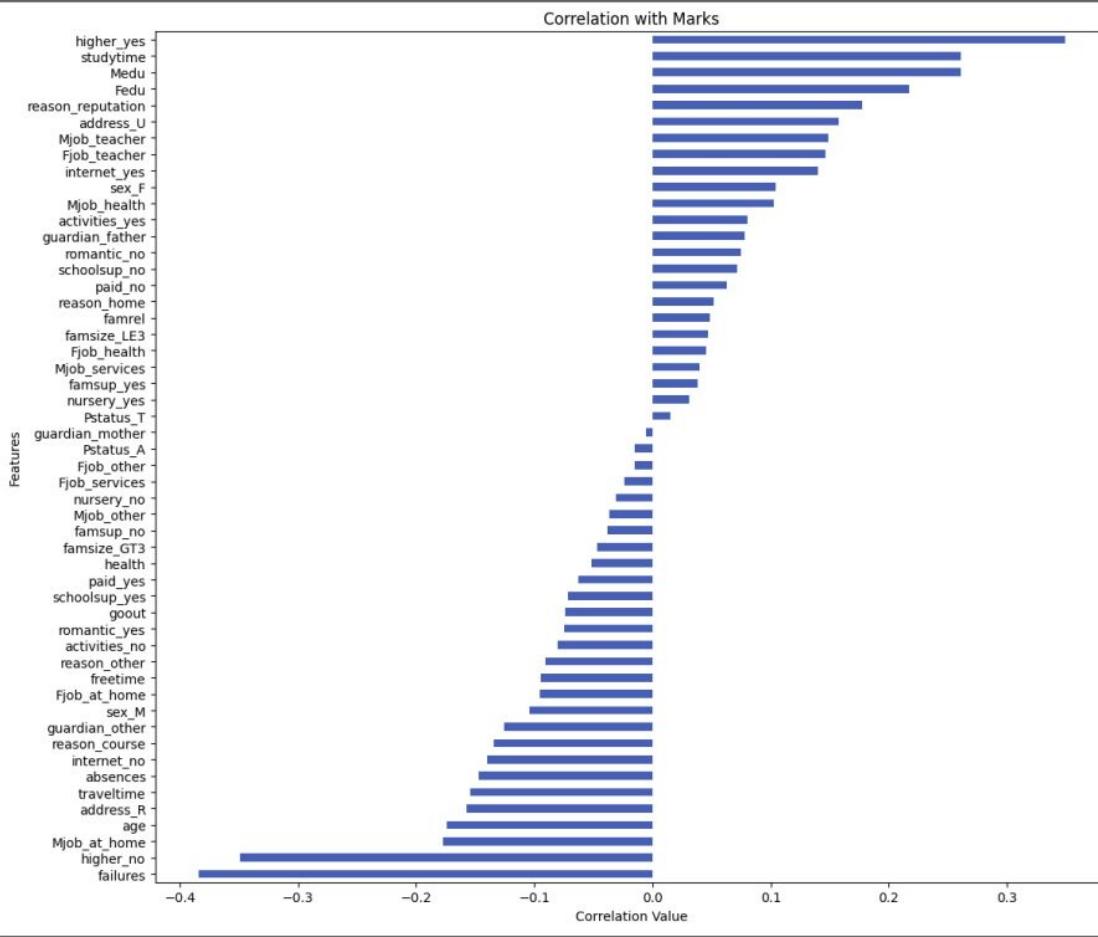
Every student learns at a different pace and prefers different learning styles. While one student might grasp a concept in a couple of hours, another might require extended study sessions to achieve the same level of understanding. This variation necessitates a flexible and personalized approach to education that accommodates these differences.

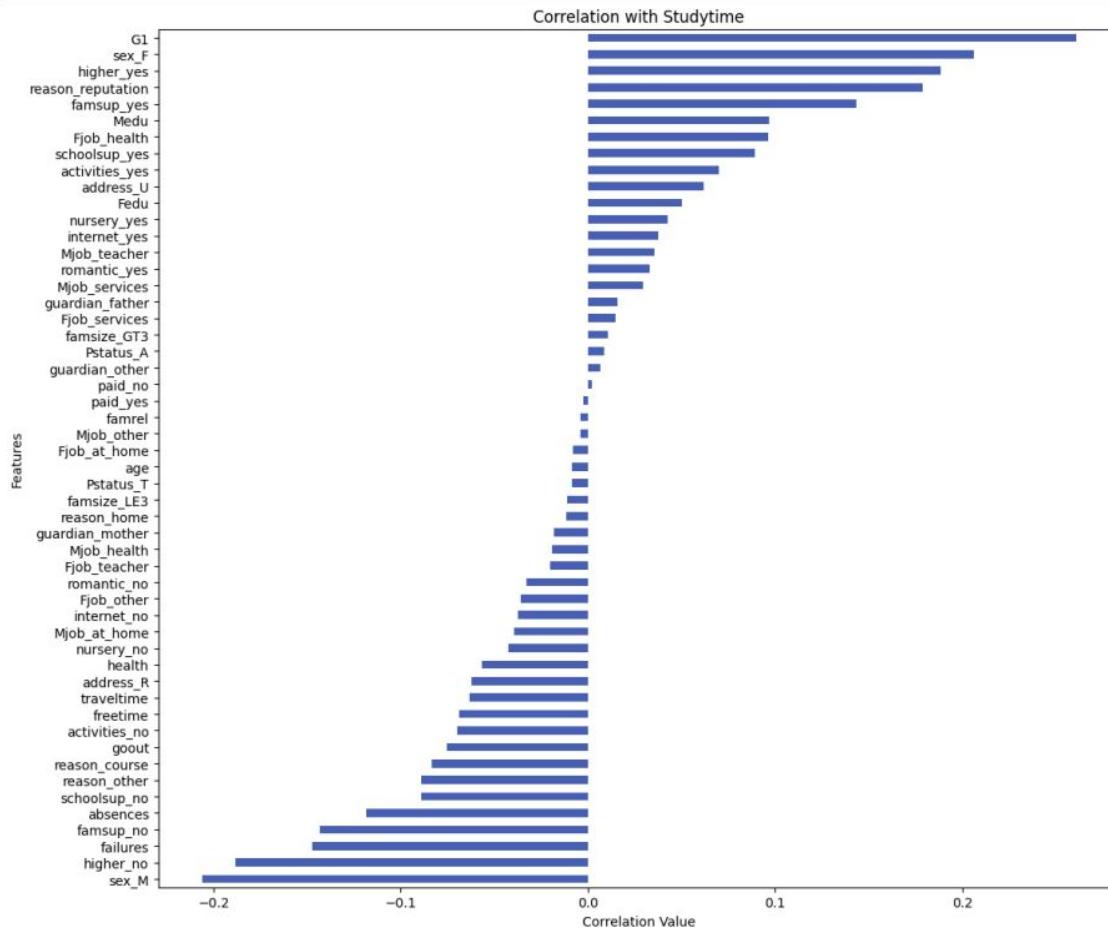
### Unequal Access to Educational Assistance

Access to additional educational support, such as tutoring, parental help, or digital resources, varies greatly among students. Some have abundant access to these aids, while others might face limitations. This disparity can lead to significant differences in the amount of assistance needed for students to achieve similar academic grades, highlighting the need for a more tailored educational support system.

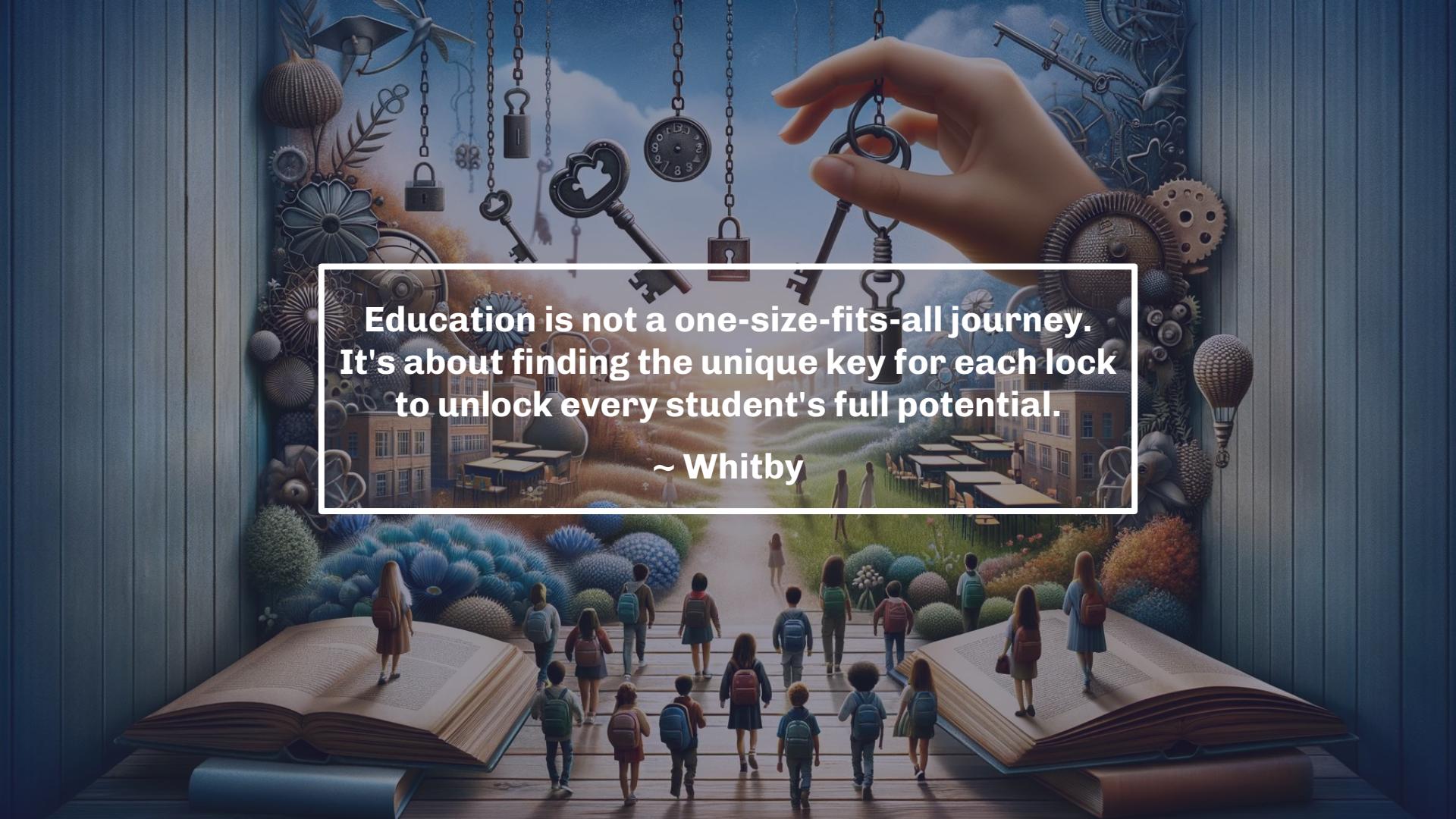










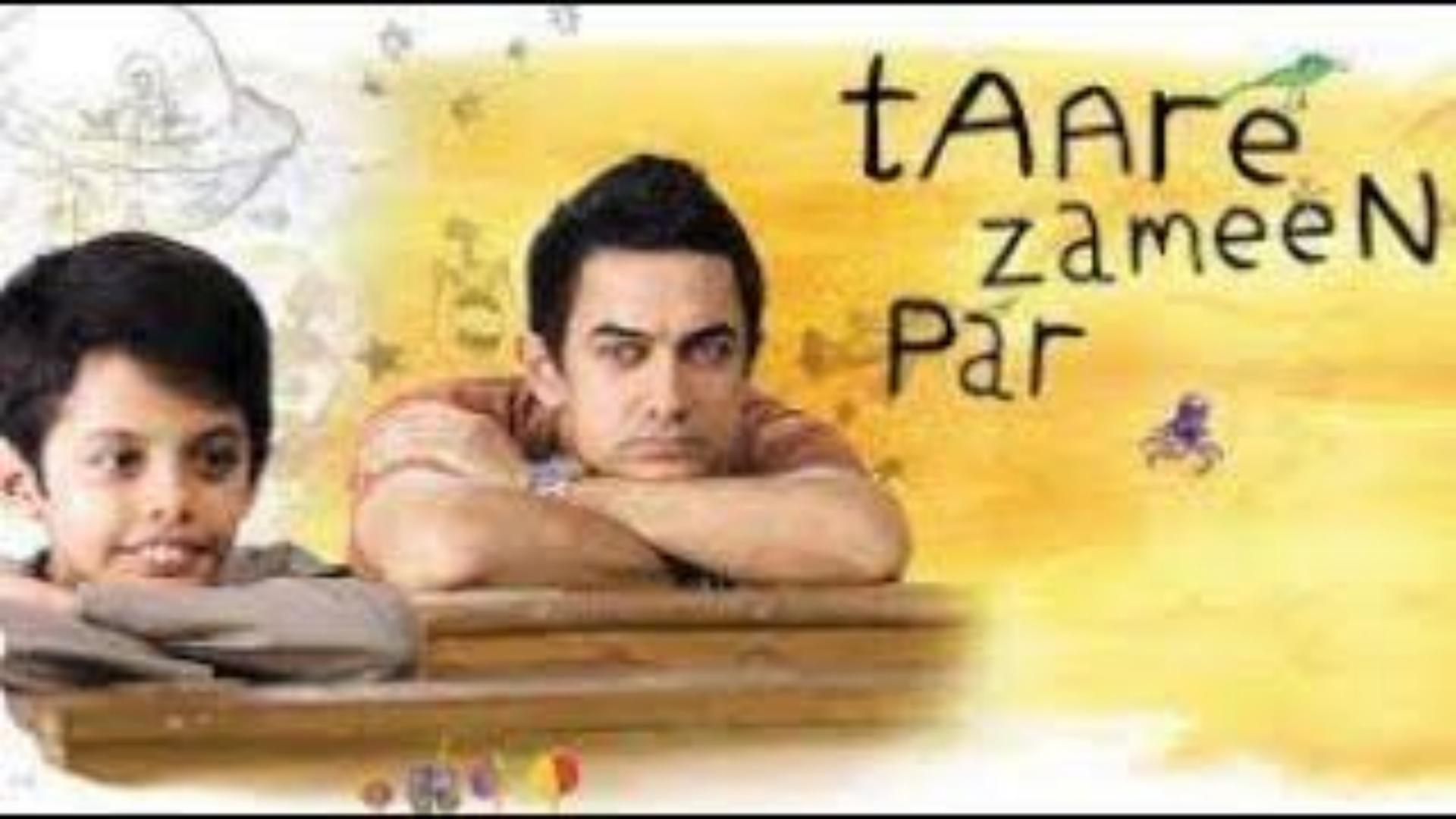


**Education is not a one-size-fits-all journey.  
It's about finding the unique key for each lock  
to unlock every student's full potential.**

~ Whitby

# **15,000,000**

**STUDENTS CAN BE DIAGNOSED WITH STRESS, ANXIETY AND MULTIPLE OTHER DISORDERS EVERY  
SINGLE YEAR BECAUSE OF THE STRESS OF COMPETING WITH OTHERS !!**

A movie poster featuring two young boys. One boy is in the foreground, leaning over a stack of books and looking directly at the camera with a serious expression. Another boy is partially visible behind him, also looking towards the viewer. The background is a warm, yellow-toned landscape with a small purple flower in the lower right corner.

# taare zameeN Par

# OUR SOLUTION

## Tailored Educational Platform Development

Our solution involves developing a comprehensive platform, uniquely **customized for each school and university**. This platform **leverages advanced data analytics** to understand and accommodate the individual learning needs and backgrounds of each student.

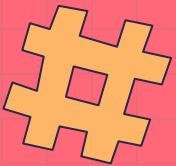
It assesses various factors such as learning pace, preferred study methods, and available resources, to create a personalized academic plan for every student.

## Customized Study Plans and Support Recommendations

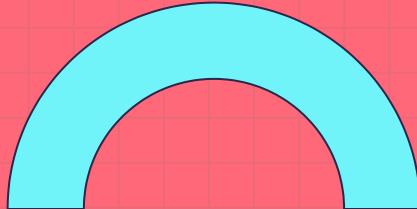
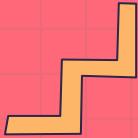
The heart of our platform lies in its ability to **generate tailored study plans** for each student. These plans suggest **optimal study durations and techniques based on the student's learning style and past performance**. Additionally, the platform recommends the type and level of external academic support needed, whether it be tutoring, digital resources, or parental involvement, ensuring that each student receives a well-rounded educational experience.

## Adaptive and Responsive Learning Environment

Our platform is not just a static tool but an adaptive system that evolves with the student's progress. It continuously analyzes academic performance, feedback, and changing needs, updating the study plans and support recommendations accordingly. This dynamic approach ensures that the educational journey is always aligned with the student's current abilities and goals, **providing a responsive and evolving learning environment**.



# How are we doing it?



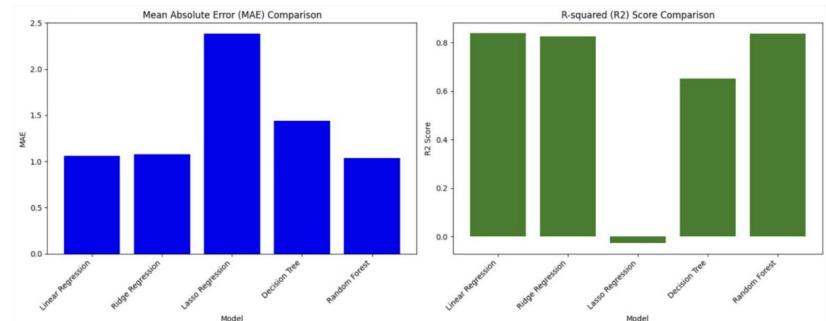
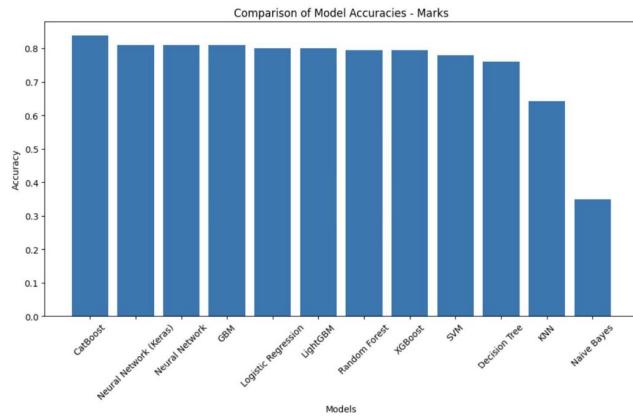
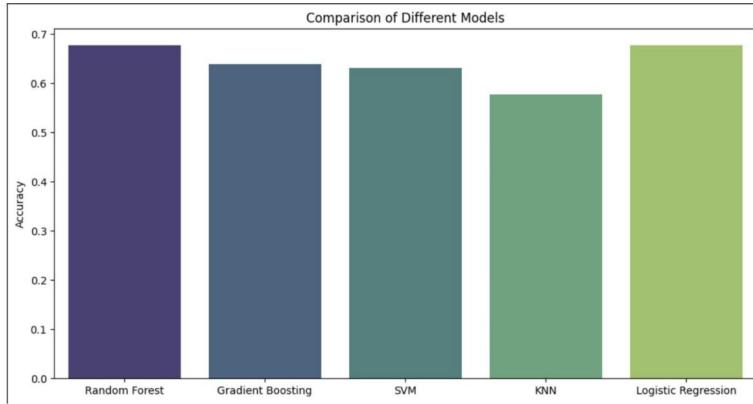


Figure 5: Comparison of Different Models

Figure 6: Initial Model Accuracy for Marks

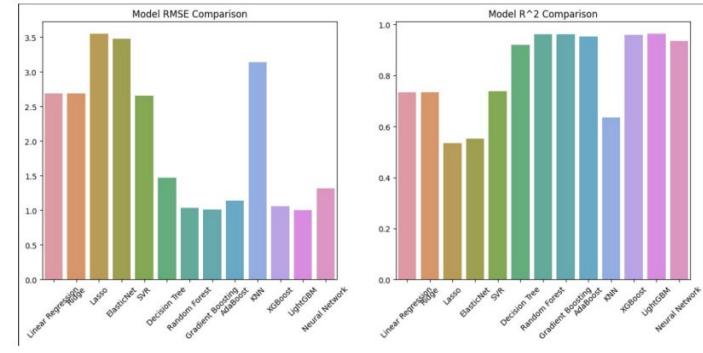
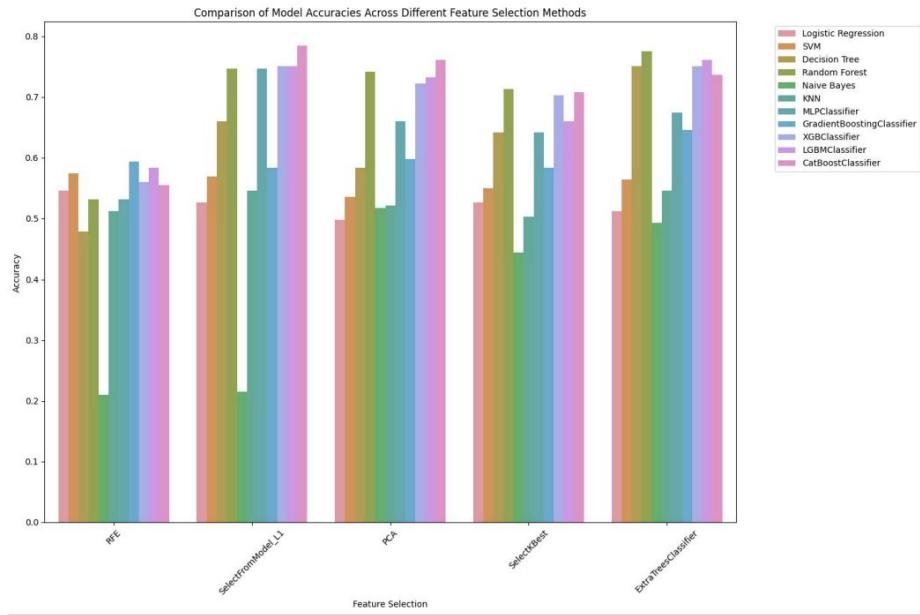


Figure 8: Advanced Model Accuracy

# 87% F1 Score

# 95% Accuracy

**Switch to Technical Report**

11:31

## Study Time Predictor

PERSONAL INFORMATION

Sex ('F' or 'M')

Age (15 to 22)

Address Type Urban ▾

Family Size LE3 ▾

Parent's Cohabitation Status T ▾

Mother's Education (0~4)

Father's Education (0~4)

Mother's Job teacher ▾

Father's Job teacher ▾

Reason to Choose School home ▾

Guardian mother ▾

11:31

## Study Time Predictor

Wants to Take Higher Education yes ▾

Access to Internet at Home yes ▾

In a Romantic Relationship yes ▾

Quality of Family Relationships (1-5)

Free Time After School (1-5)

Going Out with Friends (1-5)

Workday Alcohol Consumption (1-5)

Weekend Alcohol Consumption (1-5)

Current Health Status (1-5)

Number of School Absences (0-93)

Grade (1-20)

Desired Grade (1-20)

Predict and Recommend >

11:31

Back

## Result

### Prediction Result

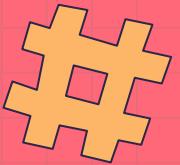
Recommendation: Maintain current study time.

## Before

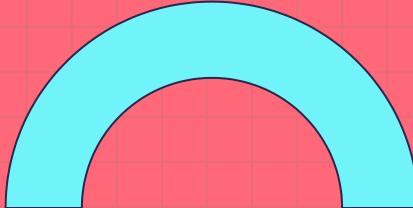
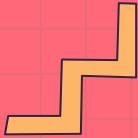


## After

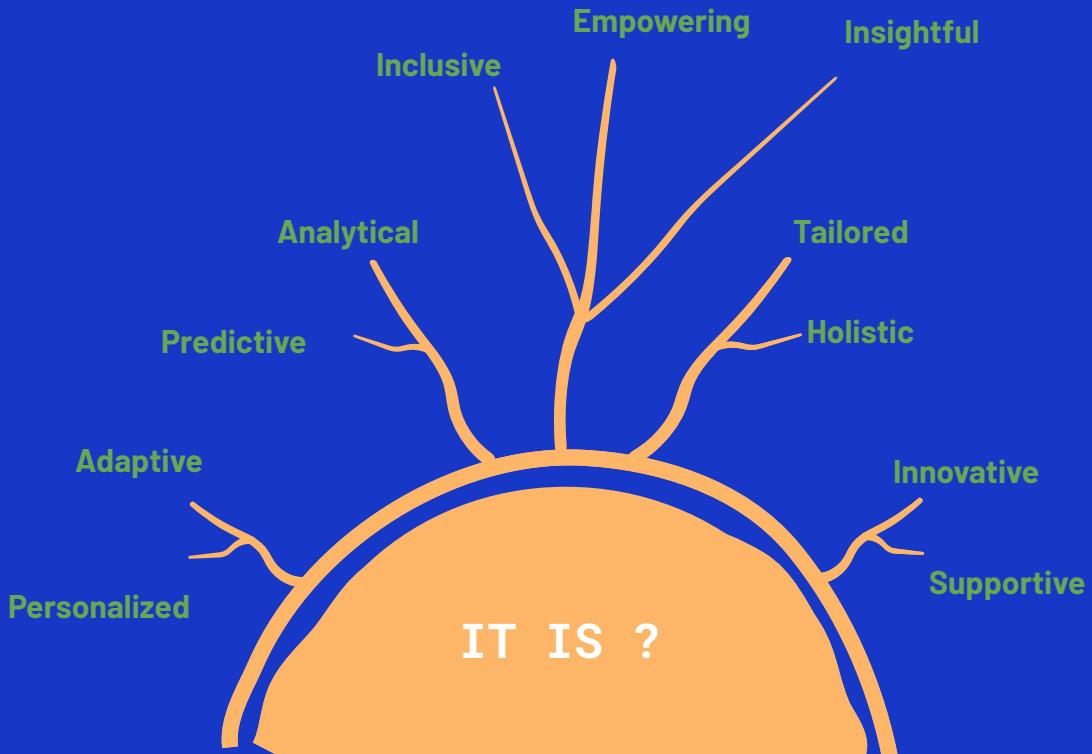




# Key Resources



# HOW OUR SOLUTION EMPOWERS ?



Our solution leverages advanced data analytics to offer a personalized educational experience for each student. By understanding and adapting to individual learning styles, paces, and backgrounds, we create a tailored roadmap that optimizes study strategies and enhances academic performance. This approach not only acknowledges but also embraces the unique educational journey of every learner, fostering a more inclusive and effective learning environment.

# THE MARKET OPPORTUNITY

## Global Opportunity:

Targeting a \$100 million market, our platform serves diverse customers globally, including institutions, tutors, and learners.

## Initial Target:

Aiming for a \$12 million SOM, our platform strategically targets immediate customers with current resources.



## Realistic Market Focus:

Identifying a \$40 million SAM, our platform narrows its scope to accessible regions and aligned educational segments.

## Year 5 Earnings:

Projecting \$4 million in year 5, our platform anticipates steady growth through product enhancement and market expansion.

# BUSINESS MODEL - OVERVIEW



## Key Partners

- Educational Institution
- Tutors and Educationist
- Data analyst and AI specialist.
- Educational Software Developers
- Technology Providers

## Key Activities

- Data collection and analysis.
- Building Relationships with Institutions.

## Key Resources

- Human capital as SDEs & managers
- Data from Institutions
- Educational content and resources

## Value Proposition

- Personalised and adaptive study plan for each student.
- Improved Academic Performance.
- Data driven insights into student learning patterns and needs.
- Enhanced resource allocation for educational institutions

## Customer Relationship

- Personalise Support and Service.
- Regular updates and feedback.

## Channels

- Online Platforms.
- Partnered educational Institutions.
- Direct Sales
- Online Marketing

## Customer Segments

- Primary and secondary Schools and Universities.
- Students and Parents.
- Private Educational Companies.
- Private Coaching Centres.
- Educational Ministries and Government Bodies

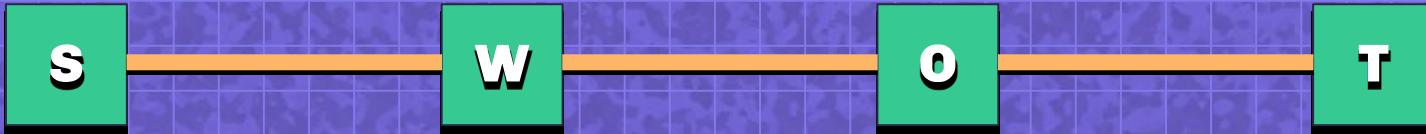
## Cost Structure

- Development and operational costs of the platform.
- Salaries for staff: developers, data scientists, support staff.
- Marketing and promotional expenses.
- Research and development for continuous improvement.
- Partnership and collaboration costs.

## Revenue Streams

- Generate revenue through subscription fees from educational institutions.
- Licensing fees for proprietary software and content.
- Offer premium features for individual users.
- Foster collaboration through projects with educational authorities, contributing to both impact and revenue.

# SWOT ANALYSIS



## Strengths

- Personalization
- Data-Driven Approach
- Strong Collaborations
- User-Friendly Interface

## Weaknesses

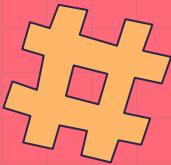
- Dependence on Data Quality
- Resistance to Change
- Privacy and Security Concerns
- Scalability Challenges

## Opportunities

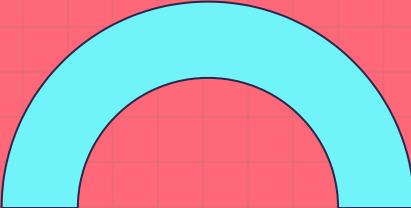
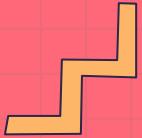
- Growing EdTech. Market
- Customized Education Trends
- Partnership and Funding Opportunities
- Educational Tools

## Threats

- Competitive Market
- Rapid Technological Changes
- Regulatory Challenges
- Dependency on Internet Access



**We are open to  
feedback and any kind  
of questions.**



# **EDU-PACE**



**Thanks for your attention!**