

- Team -3

Study Track AI

Student Study Habit Recommender



Introduction

- Intelligent web platform that recommends personalized study habits to students.
- Uses machine-learning models to analyze study time, quiz performance, and attention span.
- Secure user management built first to ensure reliable access and data protection.
- Provides a simple, user-friendly interface for both students and administrators.

Project Overview

Student Features

- Create a new account with username, email, and password.
- Log in securely using encrypted credentials.
- Enter daily study logs (time, methods, distractions) for analysis.
- View personalized study recommendations (durations, breaks, techniques).
- Track weekly performance improvements on a dashboard.

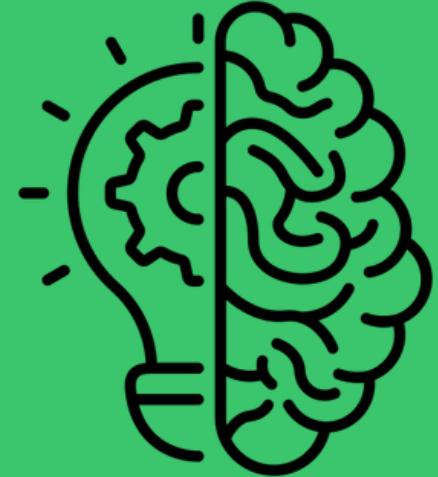


Admin Features

- Log in to manage student data and monitor system performance.
- Upload new behavioral datasets and retrain machine-learning models.
- Visualize behavior clusters—average session length, focus duration, and study method.
- Manage user accounts and maintain database integrity



Project Milestones



1

The system provides a Login, Register, and Home page, all connected to a MySQL database. User authentication is handled through password verification, and user credentials are securely stored in the database.

2

Implemented the Admin Dashboard to manage student course records and the Student Dashboard, featuring personalized progress tracking and AI-driven study recommendations.

3

Enabled dynamic course visibility, allowing students to view newly added courses immediately after the admin adds them.

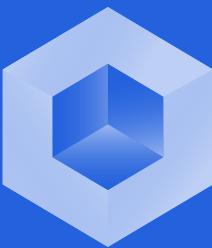
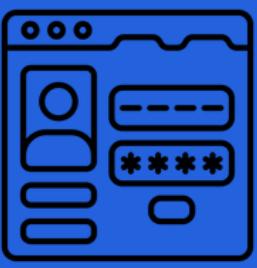
4

Implemented an automated alert system to notify students about pending tasks, upcoming deadlines, and course progress through real-time in-app and email notifications.

Milestone 1:

- Developed a secure Login, Registration, and Home page integrated with a MySQL database to ensure safe user authentication and data management.
- This milestone laid the foundation of the StudyTrack AI platform, enabling students to register, log in, and access their personalized dashboards securely.
- The system ensures that all student credentials are safely stored and verified, preventing unauthorized access and maintaining data integrity.
- The functionality was validated through successful registration and login processes, confirming smooth connectivity between the frontend and database.

Register/Login

A screenshot of a web browser window showing a "Create Account" form over a background image of various school supplies like pens, pencils, and a calculator on a wooden desk.

Create Account

Username:

Full Name:

Email:

Password:

Confirm Password:

Register

Already have an Account? [Click to Login](#)

A screenshot of a web browser window showing a "Log-in" form over a background image of various school supplies on a wooden desk.

Log-in

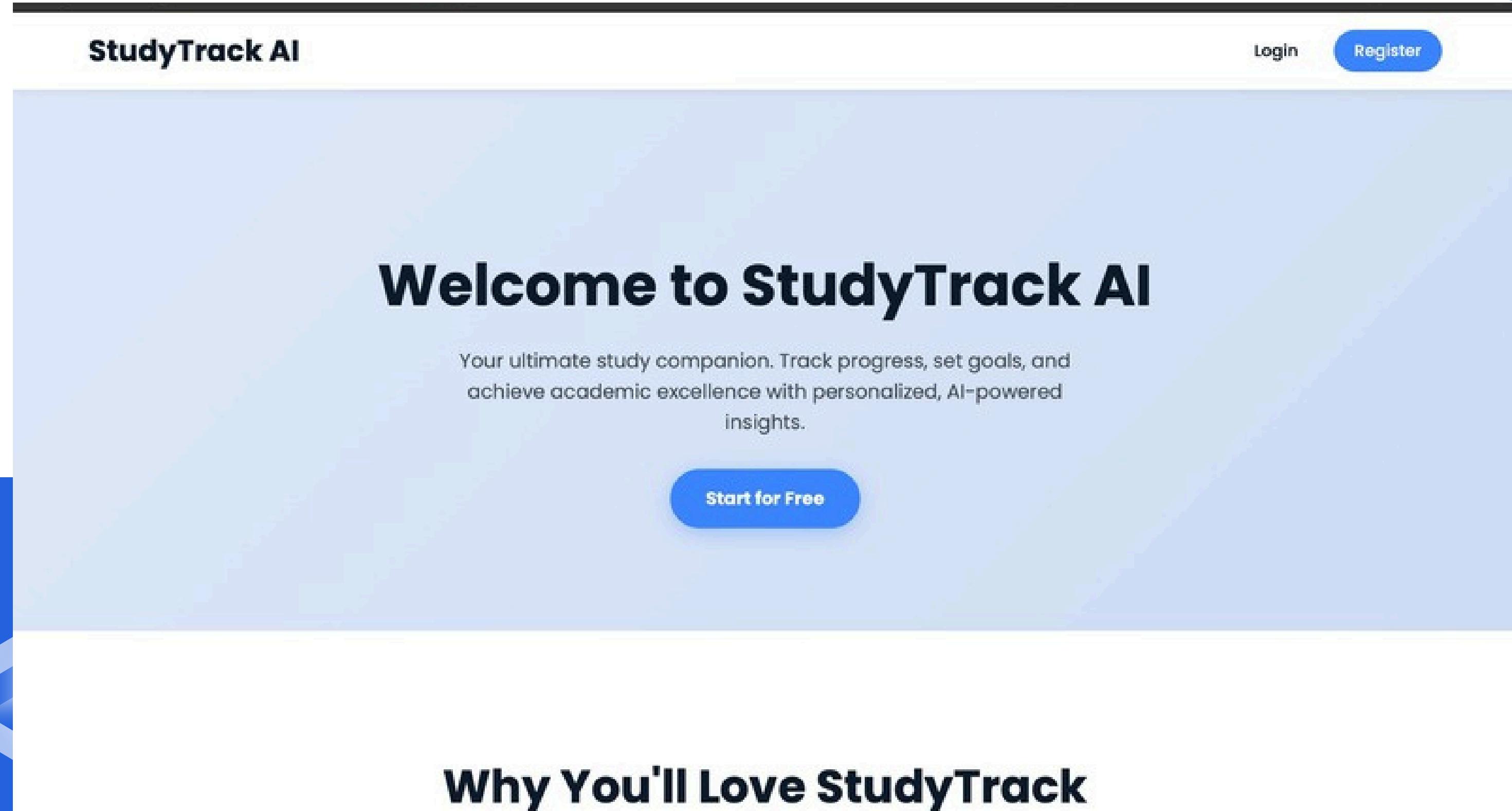
Username: [Vishal 127.0.0.1](#) [Fingerprint](#)

[Other Passwords...](#) [Forgot Password?](#)

Log In

Don't have an Account? [Click to Register](#)

Home Page



The image shows a screenshot of the StudyTrack AI home page. At the top left is the logo "StudyTrack AI". At the top right are "Login" and "Register" buttons. The main title "Welcome to StudyTrack AI" is centered above a descriptive paragraph: "Your ultimate study companion. Track progress, set goals, and achieve academic excellence with personalized, AI-powered insights." Below this is a blue "Start for Free" button. At the bottom, the heading "Why You'll Love StudyTrack" is partially visible.

StudyTrack AI

Login Register

Welcome to StudyTrack AI

Your ultimate study companion. Track progress, set goals, and achieve academic excellence with personalized, AI-powered insights.

Start for Free

Why You'll Love StudyTrack

Milestone 2:

- Designed and implemented the Admin Dashboard and Student Dashboard, providing a clear and interactive interface for users.
- The Admin Dashboard allows administrators to efficiently manage student records, add courses, and monitor overall performance.
- The Student Dashboard enables learners to track their course progress and receive AI-powered study tips for better learning outcomes.
- Both dashboards are fully connected to the database, ensuring real-time data updates and a seamless management experience for all users.

User Dashboard

Welcome back, Vishal!

Your AI Study Tip
Personalized just for you

Based on your recent quiz scores in 'python loops', I recommend reviewing 'python conditioning' for 30 minutes today. Try focusing on problems which solve basic problems. You've got this!

Upcoming Deadlines

- Python basics test Due in 2 days
- DSA Quiz Due in 4 days
- DSA Project Milestone 2 Due in 1 week

My Courses

COURSE NAME	COMPLETION %	STATUS	VIEW
Python	75%	In Progress	View
Introduction to AI	60%	In Progress	View
Data Structures & Algorithms	85%	In Progress	View

This Week's Study Goal

80% Complete

You're on track to study 8 out of 10 hours this week. Keep it up!

Log a New Study Session

Welcome back, Vishal!

StudyTrack AI

My Courses

Currently Undergoing

COURSE NAME	START DATE	END DATE	HOURS SPENT	COMPLETION %	STATUS	VIEW
Python	Aug 25, 2025	-	32 hours	75%	In Progress	View
Introduction to AI	Aug 25, 2025	-	25 hours	60%	In Progress	View
Data Structures & Algorithms	Aug 25, 2025	-	40 hours	85%	In Progress	View

Completed Courses

COURSE NAME	START DATE	END DATE	HOURS SPENT	COMPLETION %	STATUS	VIEW
Introduction to Python	Jan 15, 2025	May 10, 2025 4 months ago	55 hours	100%	Completed	View

+ Add New Course

Admin Panel

127.0.0.1

Manage access Infosys_StudyTrack AI based Student Study Habit Recomm... Join conversation Study Track AI - Admin Dashboard

Admin User AD

Admin Panel Student Course Management

All Course Records + New Student Course

Student Courses Analytics Logout

STUDENT NAME	COURSE NAME	START DATE	END DATE	HOURS SPENT	COMPLETION %	STATUS
Vish	Essentials of AI	Sep 09, 2025	Sep 30, 2025	67 hours	89%	In Progress
Vish	Python	Sep 01, 2025	Sep 22, 2025	100 hours	100%	Completed

127.0.0.1

Manage access Infosys_StudyTrack AI based Student Study Habit Recomm... Join conversation Study Track AI - Admin Dashboard

Admin User

Admin Panel Student Course Management

All Course Records + New Student Course

Student Courses Analytics Logout

Vish

Add New Student Course

Student Username: Praju Course Name: Introduction to Database

Start Date: 09/09/2025

Hours Spent: 59 Completion %: 95 Status: In Progress

Record saved successfully!

Close Cancel Save Record

DataBase

Local Instance 3306 - Warning - not supported

Query 1

```
1 • create database studytrack;
2 • use studytrack;
3 • select * from ui.userdetails;
```

Result Grid

ID	username	fullname	email	password	confirmpassword
1	Praju_0911	Vishal Prajwal	vishalprajwal06@gmail.com	V@123	V@123
2	Vishal_0911	Vishal	vishalprajwal12@gmail.com	V@321	V@321

Action Output

Time	Action	Response	Duration / Fetch Time
21:01:16	use studytrack	0 row(s) affected	0.00043 sec
21:01:19	select * from ui.userdetails LIMIT 0, 1000	2 row(s) returned	0.00072 sec / 0.0000...

Object Info

Table: ui.userdetails

Columns:

- id: bigint AI PK
- username: varchar(20)
- fullname: varchar(30)
- email: varchar(30)
- password: varchar(16)
- confirm_password: varchar(16)

Session

Actions:

- 1 21:01:16 use studytrack
- 2 21:01:19 select * from ui.userdetails LIMIT 0, 1000

Time Action Response Duration / Fetch Time

18:59:31 0 row(s) returned 0.00075 sec / 0.0000...

19:00:17 1 row(s) returned 0.00049 sec / 0.0000...

19:04:30 1 row(s) returned 0.00046 sec / 0.0000...

19:07:06 1 row(s) returned 0.00061 sec / 0.0000...

19:21:39 2 row(s) returned 0.00070 sec / 0.0000...

19:24:01 2 row(s) returned 0.00073 sec / 0.0000...

20:23:10 3 row(s) returned 0.00032 sec / 0.0000...

Milestone 3:

- Implemented dynamic course visibility, allowing students to instantly view newly added courses as soon as the admin adds them.
- This feature ensures real-time synchronization between the admin and student dashboards, creating a smooth and responsive user experience.
- The system accurately filters and displays courses specific to each student — for example, Prajwal sees “Introduction to Database” while Vishal sees his own set of courses.
- The functionality is verified through both the dashboard interface and the database, confirming that new courses are correctly assigned and visible to the respective students.

User Dashboard

Welcome back, Vishal!

My Courses

Currently Undergoing

COURSE NAME	START DATE	END DATE	HOURS SPENT	COMPLETION %	STATUS
Essentials of AI	Sep 09, 2025	Sep 30, 2025	67 hours	<div style="width: 89%;">89%</div>	In Progress

Completed Courses

COURSE NAME	START DATE	END DATE	HOURS SPENT	COMPLETION %	STATUS
Java	Sep 01, 2025	Sep 24, 2025	64 hours	<div style="width: 100%;">100%</div>	Completed
Python	Sep 01, 2025	Sep 22, 2025	100 hours	<div style="width: 100%;">100%</div>	Completed

[+ Add New Course](#)

[Dashboard](#) [My Courses](#) [Analytics](#) [Study Log](#) [Settings](#) [Logout](#)

Welcome back, Prajwal!

My Courses

Currently Undergoing

COURSE NAME	START DATE	END DATE	HOURS SPENT	COMPLETION %	STATUS
Introduction to Database	Sep 09, 2025	Sep 30, 2025	50 hours	<div style="width: 95%;">95%</div>	In Progress

Completed Courses

COURSE NAME	START DATE	END DATE	HOURS SPENT	COMPLETION %	STATUS
No completed courses yet.					

[+ Add New Course](#)

[Dashboard](#) [My Courses](#) [Analytics](#) [Study Log](#) [Settings](#) [Logout](#)

Admin Dashboard

Admin Panel

Student Course Management

Admin User AD

Student Courses

Analytics

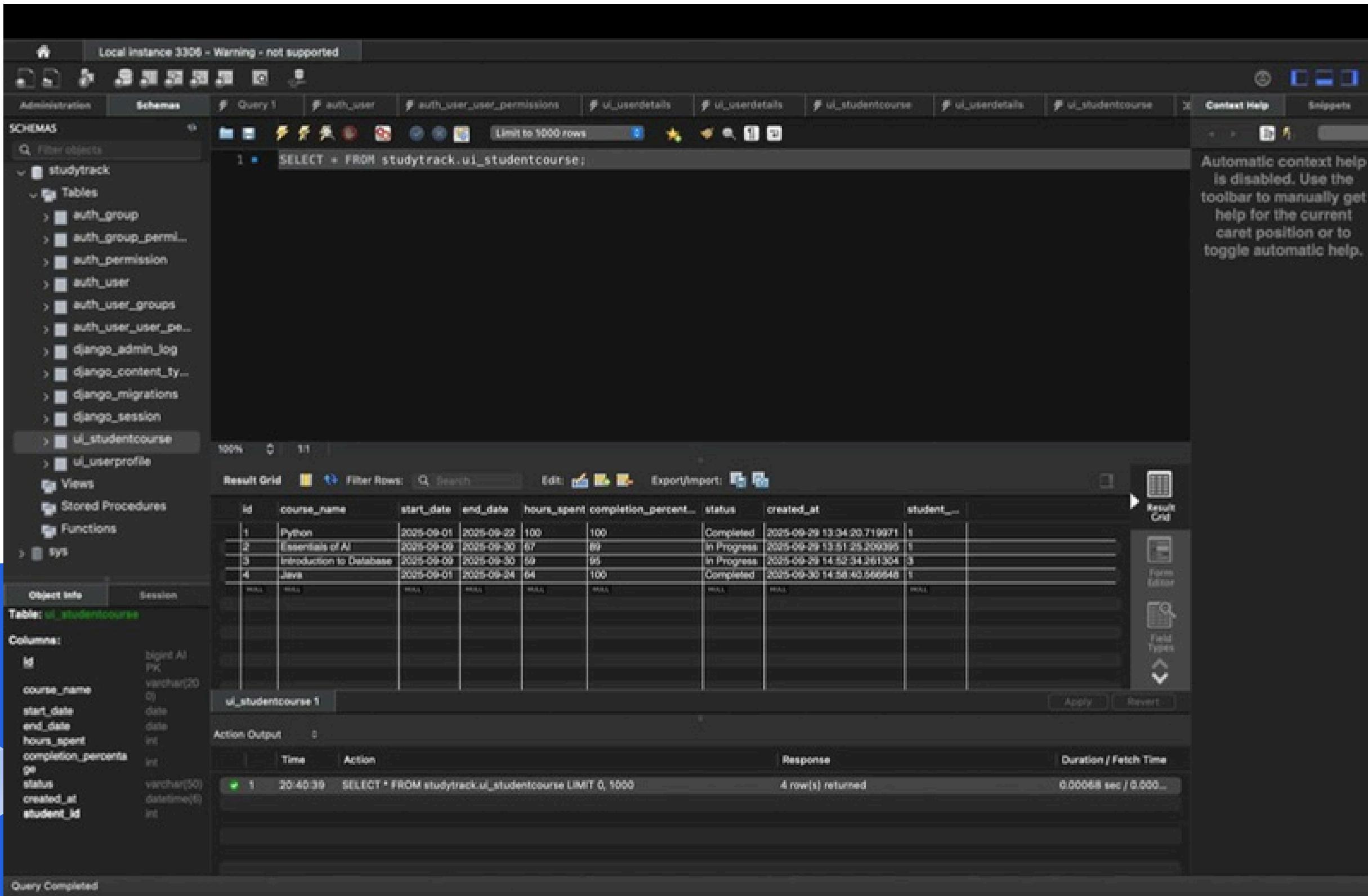
Logout

All Course Records

+ New Student Course

STUDENT NAME	COURSE NAME	START DATE	END DATE	HOURS SPENT	COMPLETION %	STATUS
Vish	Java	Sep 01, 2025	Sep 24, 2025	64 hours	100%	Completed
Praju	Introduction to Database	Sep 09, 2025	Sep 30, 2025	59 hours	95%	In Progress
Vish	Essentials of AI	Sep 09, 2025	Sep 30, 2025	67 hours	89%	In Progress
Vish	Python	Sep 01, 2025	Sep 22, 2025	100 hours	100%	Completed

Database



Milestone 4:

- Implemented an intelligent alert system to notify users about their pending quizzes, upcoming deadlines, and overall course progress.
- The system automatically sends personalized email reminders and in-app notifications to keep students engaged and on track.
- This feature ensures real-time monitoring of student activity and automated communication, enhancing user motivation and completion rates.
- The alerts are dynamically triggered based on course progress and deadlines, ensuring that each student receives updates relevant to their enrolled courses.
- The system's functionality is validated through both the dashboard interface, which reflects timely pop-ups, and the email records, confirming successful delivery of reminders to the intended recipients.

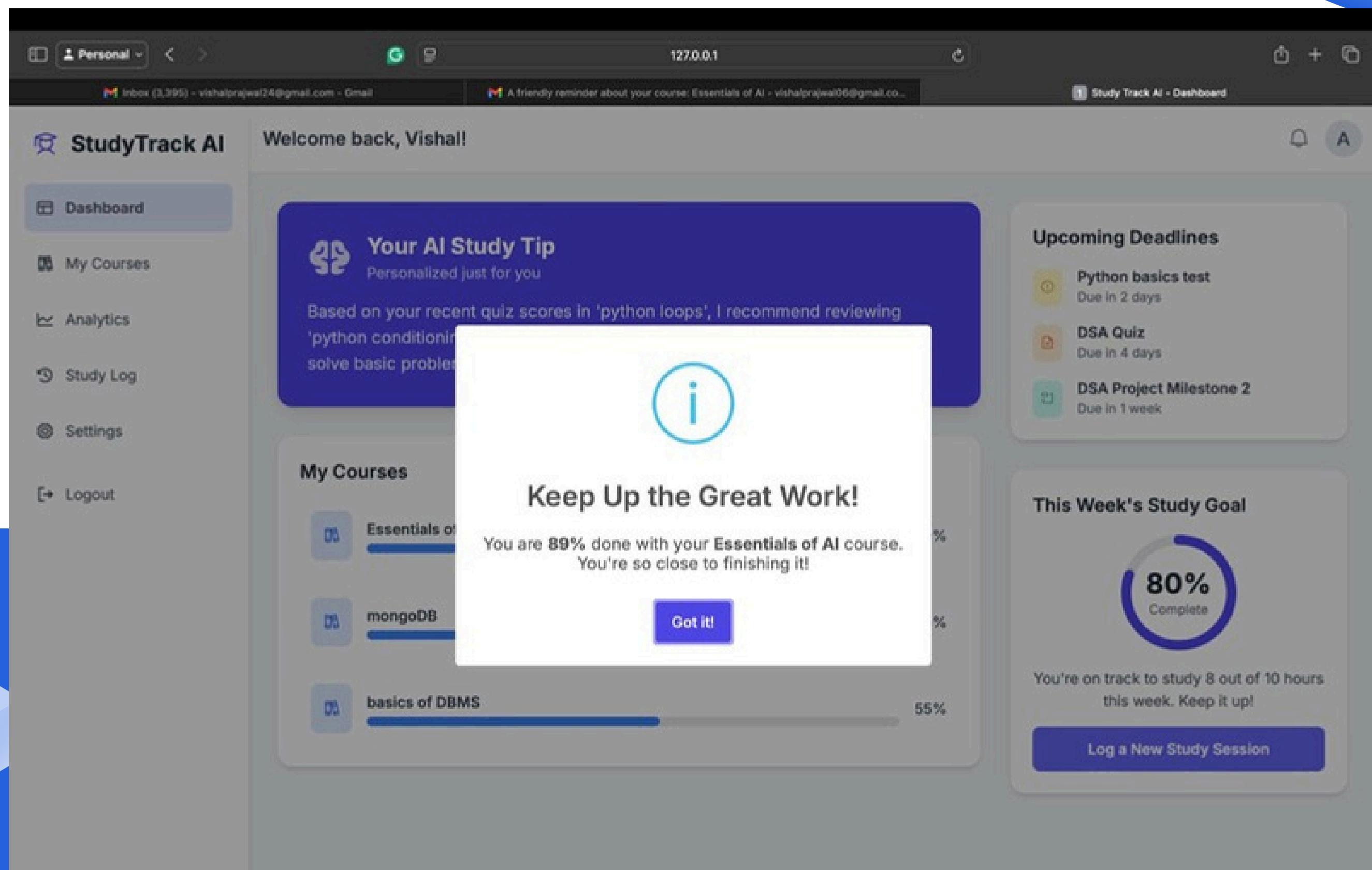
Mail Notifications

The image displays two side-by-side screenshots of a Gmail inbox interface, illustrating how notifications are presented.

Screenshot 1 (Left): Shows a single email notification for a MongoDB quiz reminder. The subject is "Reminder: Complete your mongoDB quiz!" from "nta.official.2022@gmail.com". The message body includes a friendly greeting, a reminder to attempt the quiz, and a closing statement about keeping momentum. The timestamp is 10:01 AM (1 minute ago).

Screenshot 2 (Right): Shows three consecutive notifications from the same sender, "nta.official.2022@gmail.com", all related to the "Essentials of AI" course. The first two notifications are identical, sending a friendly reminder to continue work on the course. The third notification is also identical but includes an additional line of text: "so close to the finish line. Keep up the momentum!". All notifications were sent at 10:01 AM, with the first being 1 minute ago, the second 2 minutes ago, and the third 1 minute ago.

In-App Notifications



Conclusion

In conclusion, the StudyTrack AI platform has been successfully developed into a smart and user-friendly learning management system. It includes secure login and registration, an admin dashboard for managing student data, and a student dashboard for tracking progress with AI-powered study tips. The system now supports real-time course visibility and automated reminders, keeping students informed about their tasks and deadlines. Overall, it ensures smooth management, timely communication, and an engaging learning experience.



TEAM MEMBERS

- ▶ VOJJA SATHVIKA
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THANK YOU

