User Manual
EDU-PREDICT


EPROJECT

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Problem Statement

Background

Education institutions worldwide face numerous challenges, such as declining student retention rates, inefficient resource allocation, and the need to personalize learning experiences. At the same time, advancements in technology and data availability present significant opportunities to address these challenges through data-driven approaches.

By leveraging the capabilities of Hadoop and predictive analytics, EduPredict aims to overcome these challenges, capitalize on data-driven opportunities, and ultimately enhance the educational experience for the students.
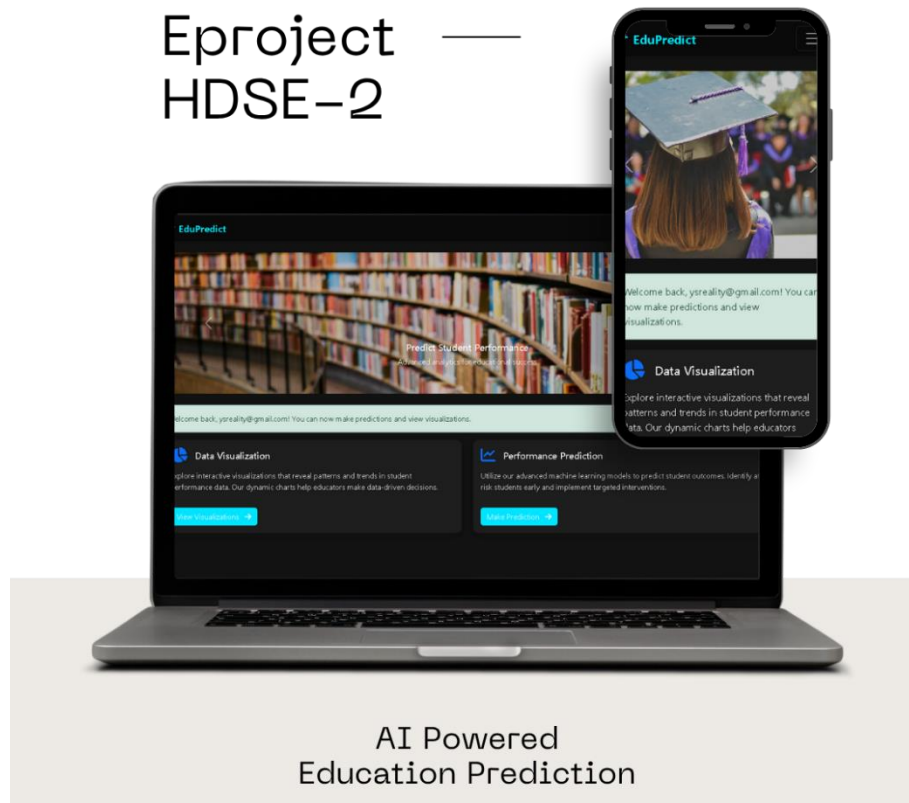
Accessing the Application

- Open your browser and go to the EduPredict website (localhost or deployment URL).

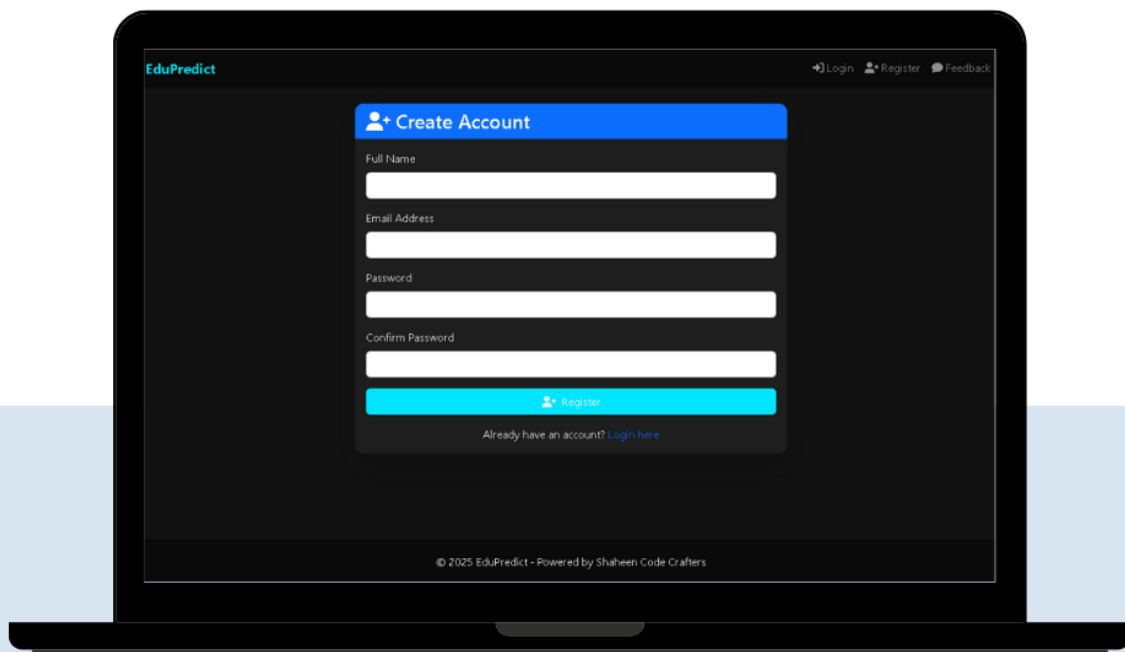- You'll land on the Home Page with an overview and navigation menu.
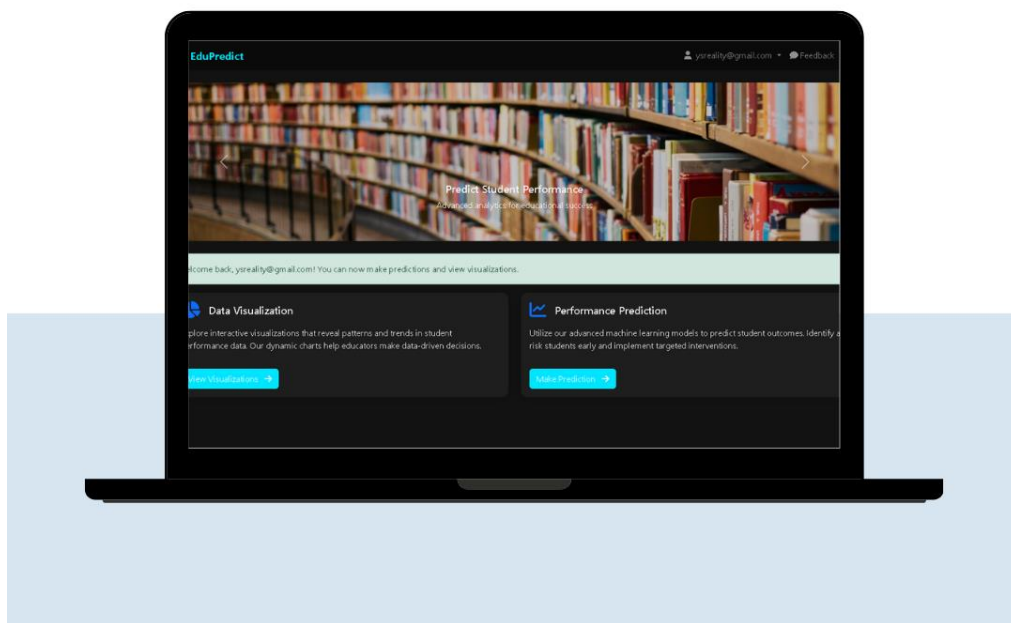
User Registration & Login

2.1. Register

- Click Register from the navbar.
- Fill in:
  - Name
  - Email
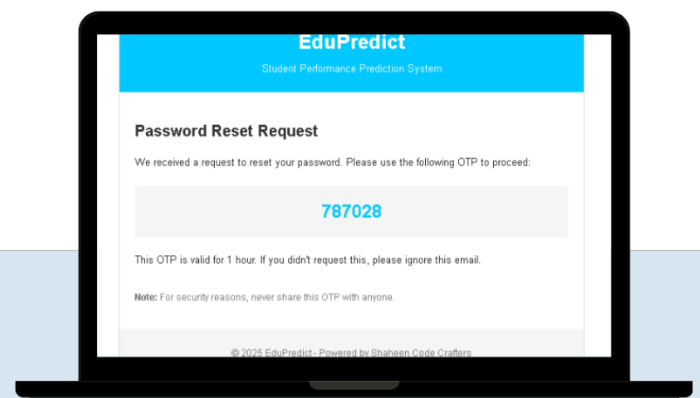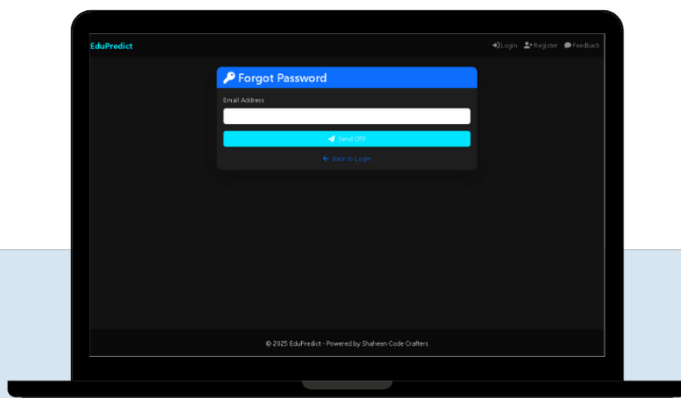 - Password
  - Confirm Password

2.2. Login

- Click Login from the navbar.
- Enter your email and password.
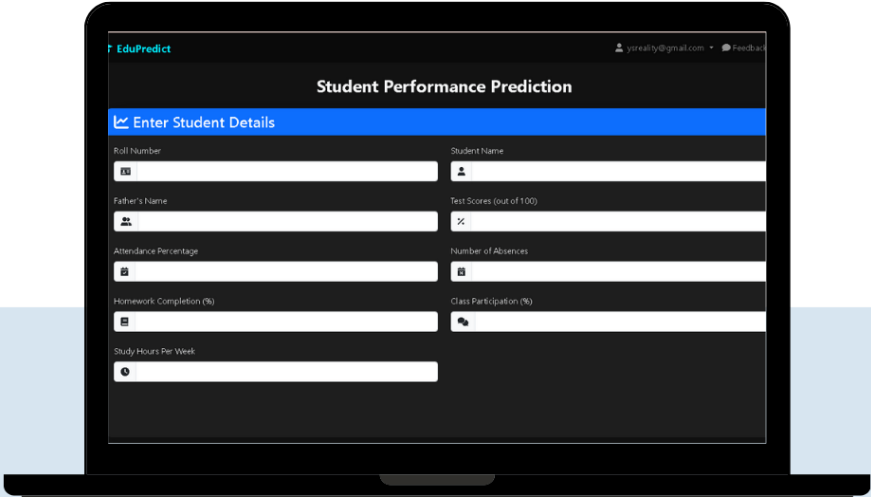- If correct, you will be redirected to the homepage.

Forgot Password

- On the Login page, click Forgot Password.
- Enter your email address.
- You'll receive an OTP in your email.
- Use that OTP to set a new password via the Reset Password page.

# 1. Predict Student Performance

- Go to the Predict page.
- Fill in the following student data:
  - Roll Number
  - Name
  - Father's Name
  - Test Scores
  - Attendance
  - Number of Absences
  - Homework Completion (%)
  - Participation (%)
  - Study Hours Per Week
- Click Predict.
- You will see a result: "Continue Studies" or "Likely to Dropout".
- This prediction is saved under your account.

Visualizations

- Navigate to Visualization in the menu.
- You'll see:
  - Prediction Distribution (Pie Chart)
  - Test Scores vs Attendance (Scatter Plot)
  - Feature Importance (Bar Chart)
  - Correlation Matrix (Heatmap)
  - Study Hours (Histogram)
  - Monthly Trends (Line Chart)
  - Box, Bar, and Violin plots for deeper insights
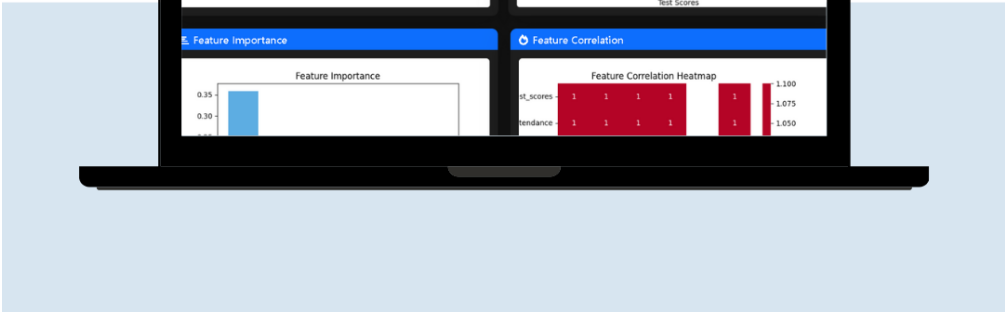
View & Manage Predictions

- Click My Predictions.
- You'll see a list of all your predictions sorted by latest.
- For each entry, you can:
    - Download Report (PDF)
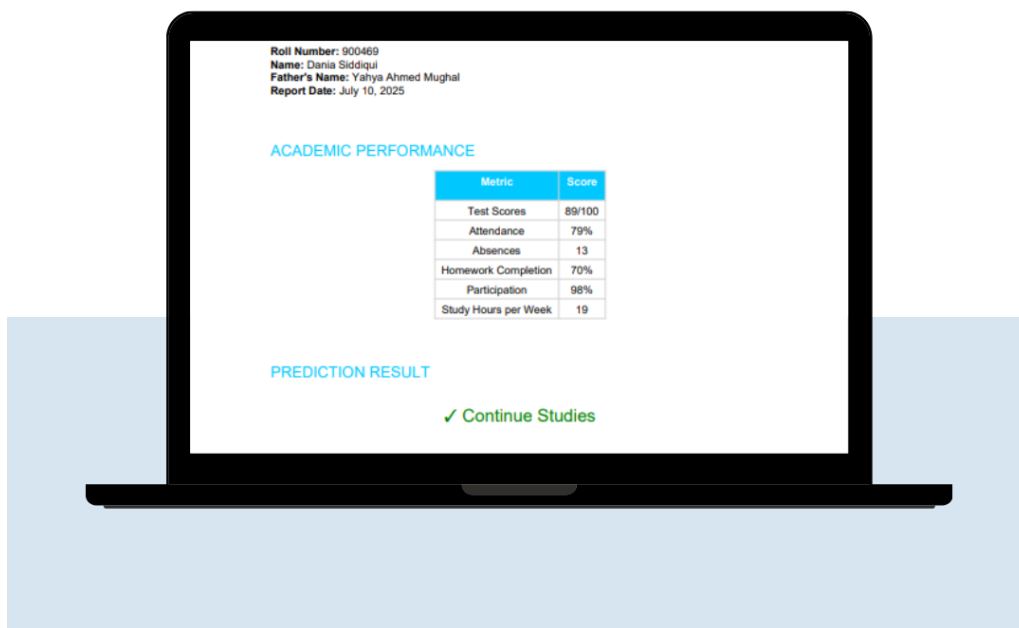   - Delete Prediction
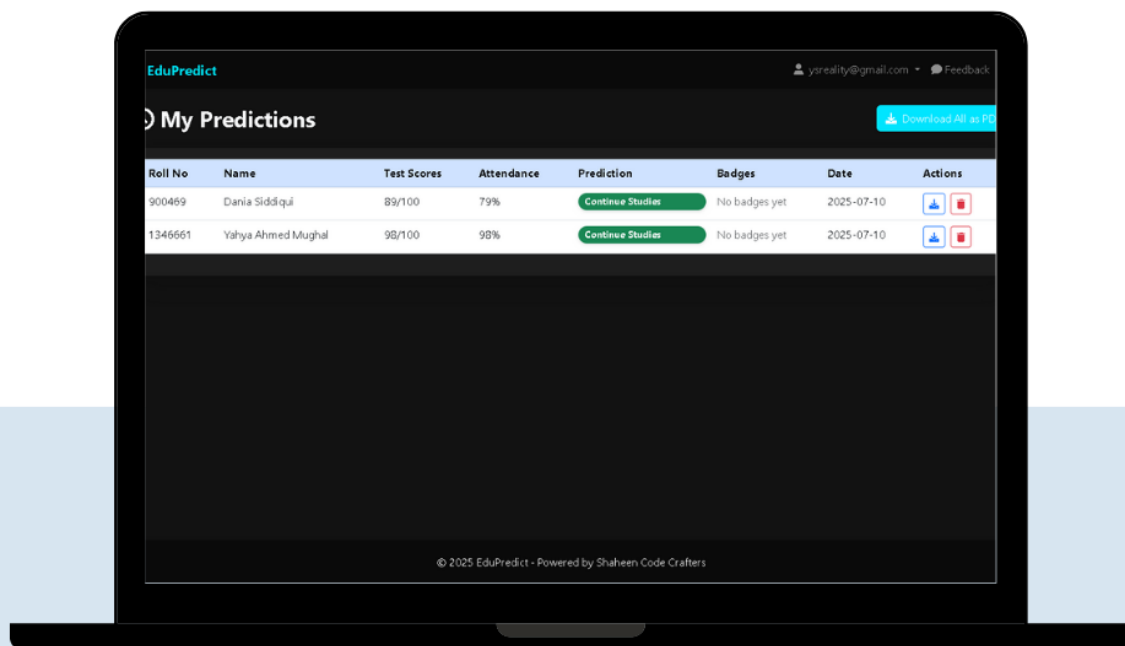
PDF Report Generation

6.1. Individual Report

- Go to My Predictions.
- Click Download Report next to any student.
- You'll get a detailed PDF report with:
  - Student Info
  - Scores
  - Prediction Result
 - Recommendations

6.2. All Predictions Report

- Go to Download All Predictions from the menu.
- A single PDF containing all predictions will be generated.

Roll Number: 900469
Name: Dania Siddiqui
Father's Name: Yahya Ahmed Mughal
Report Date: July 10, 2025

ACADEMIC PERFORMANCE

Metric	Score
Test Scores	89/100
Attendance	79%
Absences	13
Homework Completion	70%
Participation	98%
Study Hours per Week	19

PREDICTION RESULT

✓ Continue Studies

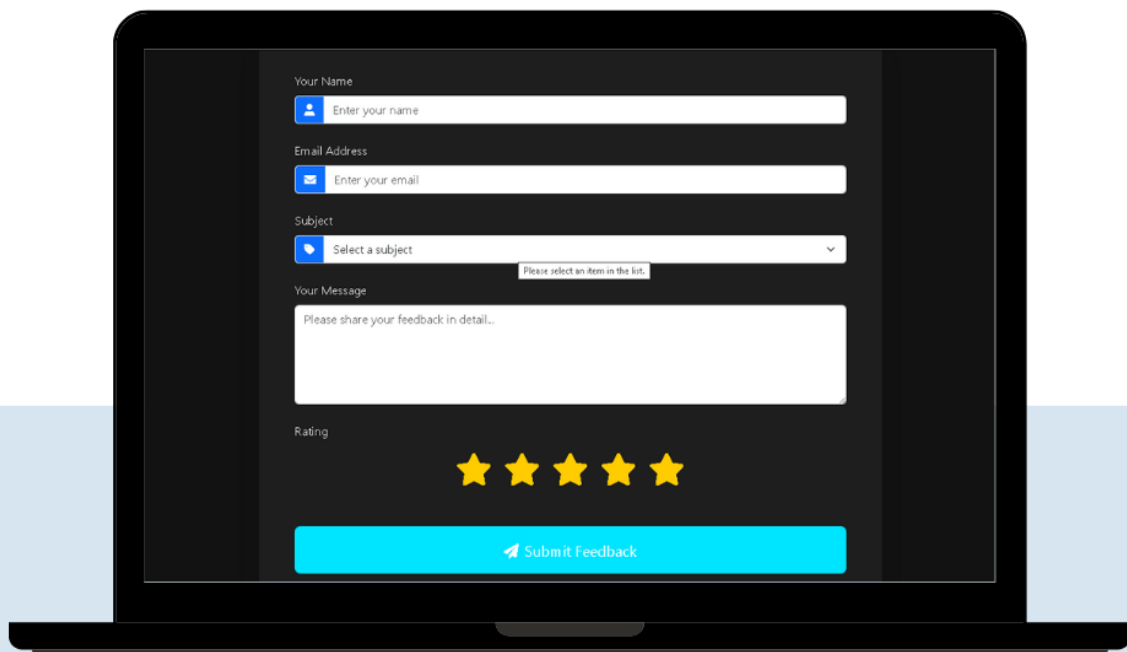# Profile Management

7.1. Update Profile

- Click on Profile.
- Change your name or update your password.
- Current password is required to change to a new one.
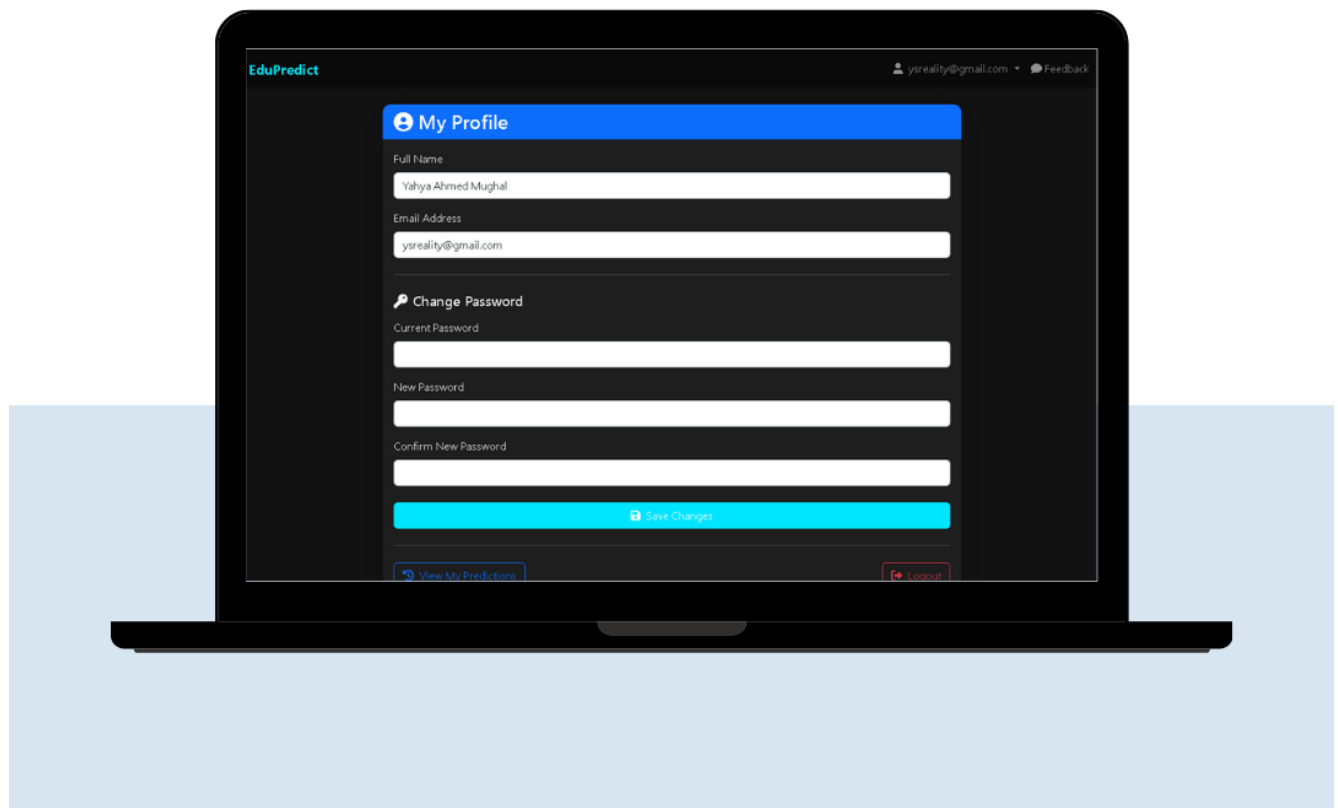
Submit Feedback

8.1. Share Your Thoughts

- Visit the Feedback page.
- Enter:
    - Name
    - Email
    - Subject
    - Message
    - Rating (1-5)
- Submit your feedback to help improve EduPredict.

Thank You