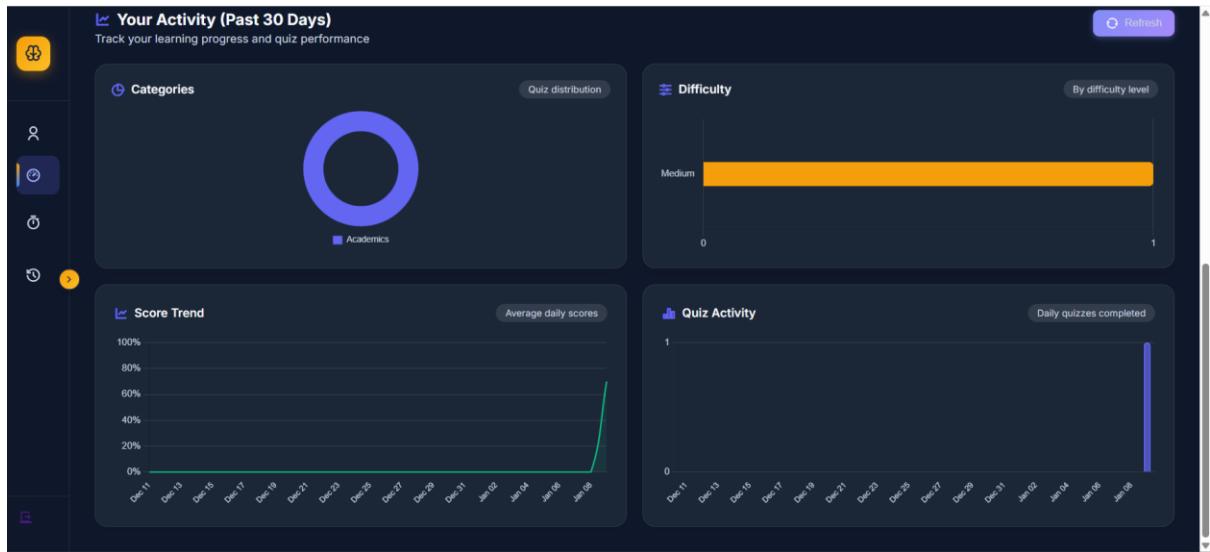


Addition of performance analytics of the user on Dashboard section



Last 30 Days Activity Logic

- The “Past 30 Days Activity” section is implemented using a backend + frontend data flow.
- On the Django backend, quiz attempts are filtered using a date range (today - 30 days) for the logged-in user.
- Data is aggregated per day to compute:
 - Number of quizzes completed per day
 - Average score per day
 - Category-wise quiz count
 - Difficulty-wise quiz count

Charts Implementation

- On the frontend, charts are rendered using Chart.js.
- Different chart types visualize different insights:
 - Bar chart → daily quizzes completed
 - Line chart → average score trend
 - Doughnut chart → category distribution
 - Horizontal bar chart → difficulty distribution
- Charts automatically adapt to theme changes (dark/light) by recalculating colors.
- A refresh button + visibility/focus listeners fetch updated data via a Django API endpoint (`dashboard_charts_api`) without reloading the page.

Result

- This gives a real-time, visual summary of user learning activity over the last 30 days, making progress tracking intuitive and data-driven.