# 📊 Visual Student Performance Dashboard

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# 📊 Visuals for Student Performance Dashboard

## 1. Gauge / KPI Chart (Overall Readiness %)

Shows a single metric like “Readiness Score” or “Average Performance”.  
  
Example: Riya → 65% ready in Mathematics.

## 2. Stacked Bar Chart (Topic-wise Performance)

Good for comparing different subjects/topics.  
  
Example: Math → Algebra 40%, Geometry 70%, Trigonometry 55%.  
  
Use color coding → Blue = Strong, Orange = Weak.

## 3. Line Chart (Progress Over Time)

Tracks improvement after multiple quizzes/tests.  
  
Example: Readiness went from 45% → 60% → 75%.  
  
Shows effect of personalized learning.

## 4. Table / Matrix (Recommended Content)

Displays personalized recommendations.  
  
Columns: Topic, Weakness, Suggested Resource.  
  
Example:  
  
Topic Weakness Recommended Resource  
Algebra Equations “Khan Academy Video”

## 5. Heatmap (Class Weak Areas – for teachers)

Rows = Topics, Columns = Students.  
Dark color = more mistakes.  
Helps teacher see which topics most students are weak in.

## 6. Cards (Key Insights)

Use simple cards to highlight:  
  
Strongest Subject: ✅ Science  
Weakest Subject: ❌ Math (Algebra)  
Avg Time Spent: 35 mins/day

# ⚡ Suggested Layout for Hackathon Dashboard

## Page 1 – Student View

• Gauge Chart → Overall readiness %  
• Stacked Bar → Topic-wise performance  
• Line Chart → Progress over time  
• Table → Personalized recommendations

## Page 2 – Teacher View

• Heatmap → Weak topics across class  
• Stacked Bar → Subject-wise comparison of students  
• Cards → Avg readiness, Avg time spent, Most common weak topic