

Student Performance Analysis Dashboard

By Team Lowkey

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PROBLEM STATEMENT & MOTIVATION

Problem Statement

- Teachers spend hours manually tracking student performance
- Difficult to identify struggling students early
- No central system for viewing attendance and grades together
- Time-consuming report generation

Motivation

- Simplify tracking for educators
- Enable early identification of at-risk students
- Centralized, easy-to-use platform
- Save time on reports and administration

PROPOSED SOLUTION & ROI

Proposed Solution

- Web-based dashboard (Python Flask)
- Real-time performance visualizations (grades, attendance)
- Simple charts & filters by subject and grade
- Lightweight SQLite database

ROI (Value)

- 40-50% less time for teacher reporting
- Early identification of at-risk students
- Minimal training required
- Cost-effective open-source solution

MARKET READINESS & FEASIBILITY

Market Readiness

- Status: Just created a basic idea of the features we'll be integrating
- Ready for school trial with sample data
- Completion timeline: 10-12 weeks

Feasibility

- Team: 2 Python beginners
- Skills: Python, Flask, basic HTML/CSS, SQLite
- Free tools & libraries
- Achievable MVP with guided planning



SCOPE, IMPACT & UNIQUENESS

Scope & Impact

- Target: Teachers & Administrators; 100-200 students
- Saves 5-10 hours/week per teacher
- Enables data-driven support

Uniqueness

- Beginner-friendly design
Python-based; easy to maintain
- Open-source and scalable for future development



RISK FACTORS

● Limitations and Mitigations

- Data Privacy: Protect student info (basic security, access limits)
- Scalability: Simple for small schools (optimize for large data later)
- User Adoption: Simple UI and basic training
- Integration: Use CSV for data import initially
- Team Capacity: Build MVP, add features later
- Testing: Extra time for thorough bug checks



Thank
You