

Control Panel

Configure model parameters and view analytics

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[View Source Code on GitHub](#)

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Student Performance Analytics

Advanced prediction platform with ML ensemble techniques

👋 Welcome to Student Performance Analytics 🔗

This advanced analytics platform helps educators and students predict academic performance using state-of-the-art machine learning techniques. The application integrates multiple models and provides detailed analyses to help improve student outcomes.

⭐ Key Features

- Interactive Data Visualization:** Explore the relationships between different factors affecting student performance
- Advanced ML Models:** Utilize ensemble methods combining Linear Regression, Random Forest, and XGBoost
- Detailed Performance Breakdown:** Understand how each factor contributes to the predicted performance
- Personalized Recommendations:** Get tailored suggestions for improvement based on individual profiles
- Model Comparison:** Compare different machine learning models and their prediction accuracy

🚀 Getting Started

- Explore the **Data Analysis** tab to understand the patterns in student performance data
- Check out the **Model Training** tab to train and evaluate different prediction models
- Use the **Prediction** tab to get personalized performance predictions and recommendations

Select a section from the sidebar to begin!

✨ Feature Highlights

📊 Interactive Analytics

Explore student data through interactive visualizations that help identify key performance factors.

🤖 Ensemble Prediction

Utilize multiple machine learning models combined through a weighted ensemble approach for higher accuracy.

🧠 Smart Recommendation S

Receive AI-generated, personalized recommendations to improve academic performance.

Ready to Get Started?

Explore Data Analysis

Train Models

Make Predictions