

CS 556 Group Project: Admission Prediction Report

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- **Linear Regression Model**

Training MSE: 0.00387

Test MSE: 0.00462

- **PCA + Regression Model**

Training MSE: 0.00448

Test MSE: 0.00551

- **Salient Project Features**

- Used cleaned dataset (admission_data_standardized.csv)
- 80/20 train-test split applied
- Linear Regression trained on all features
- PCA for dimensionality reduction (2 components)
- Model performance compared via MSE