Model Performance Report: Extra Trees

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MODEL DETAILS:
• Algorithm: Extra Trees
• Training Samples: 8155
• Test Samples: 2039
• Features: 12

PERFORMANCE METRICS:
• Root Mean Square Error (RMSE): 0.9881
• R² Score: 0.9820
• Mean Absolute Error (MAE): 0.6617
• Mean Square Error (MSE): 0.9764

INTERPRETATION:
• R² Score of 0.9820 means the model explains 98.20% of the variance
• RMSE of 0.9881 indicates average prediction error
• Lower RMSE and MAE values indicate better model performance
• R² closer to 1.0 indicates better model fit

DATASET INFORMATION:
• Target Variable: Last Column
• Problem Type: Regression
• Cross-validation: 3-fold GridSearchCV used for hyperparameter tuning
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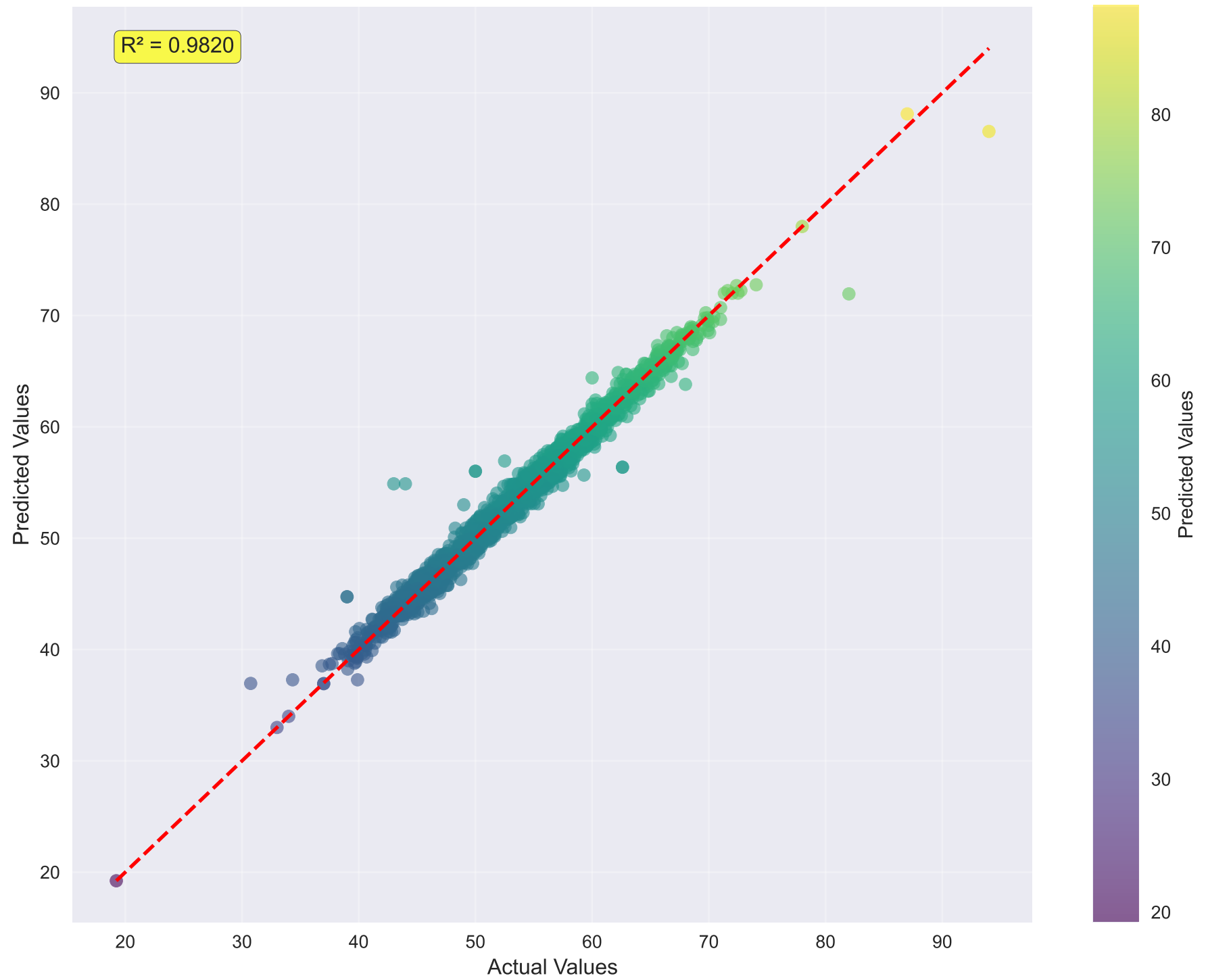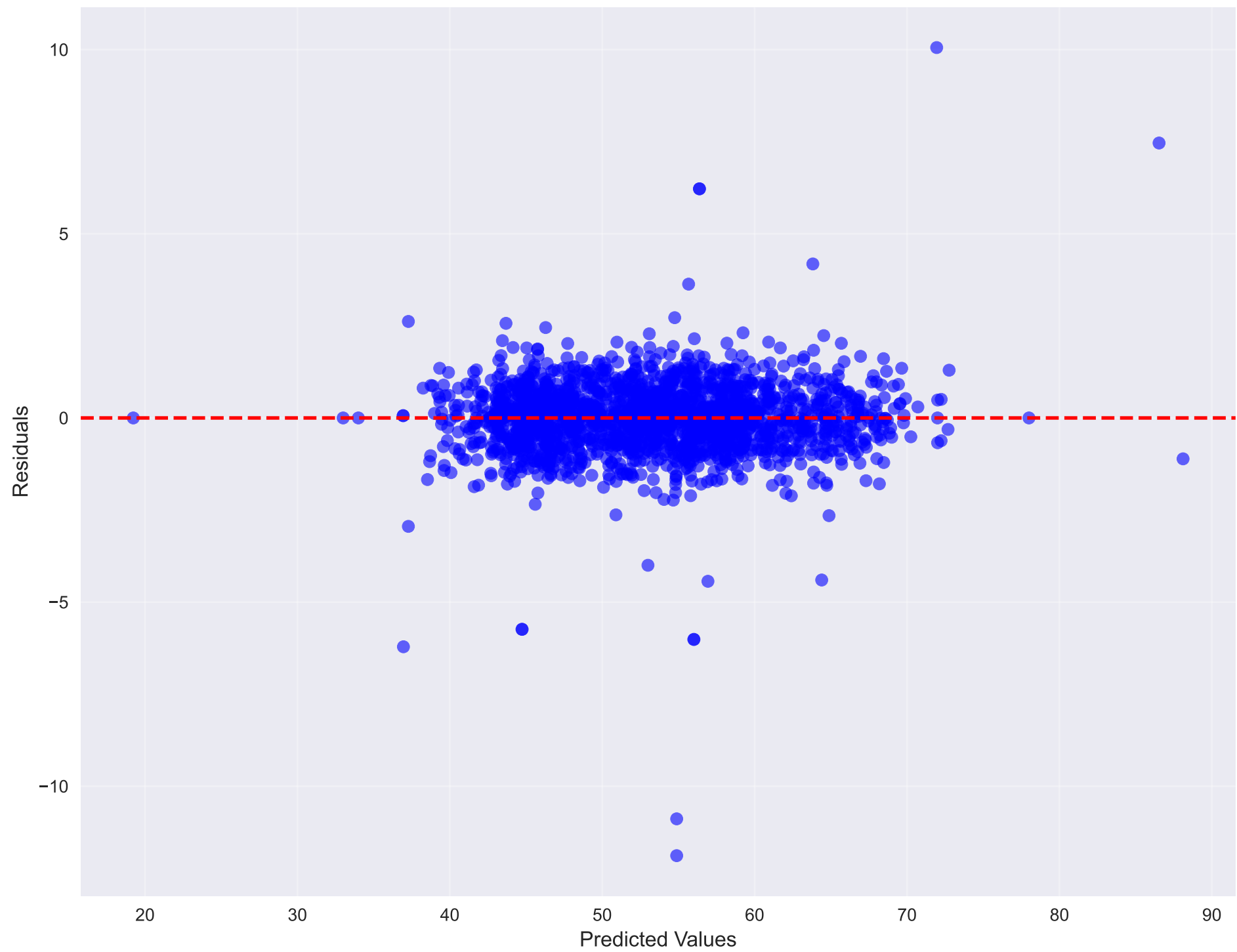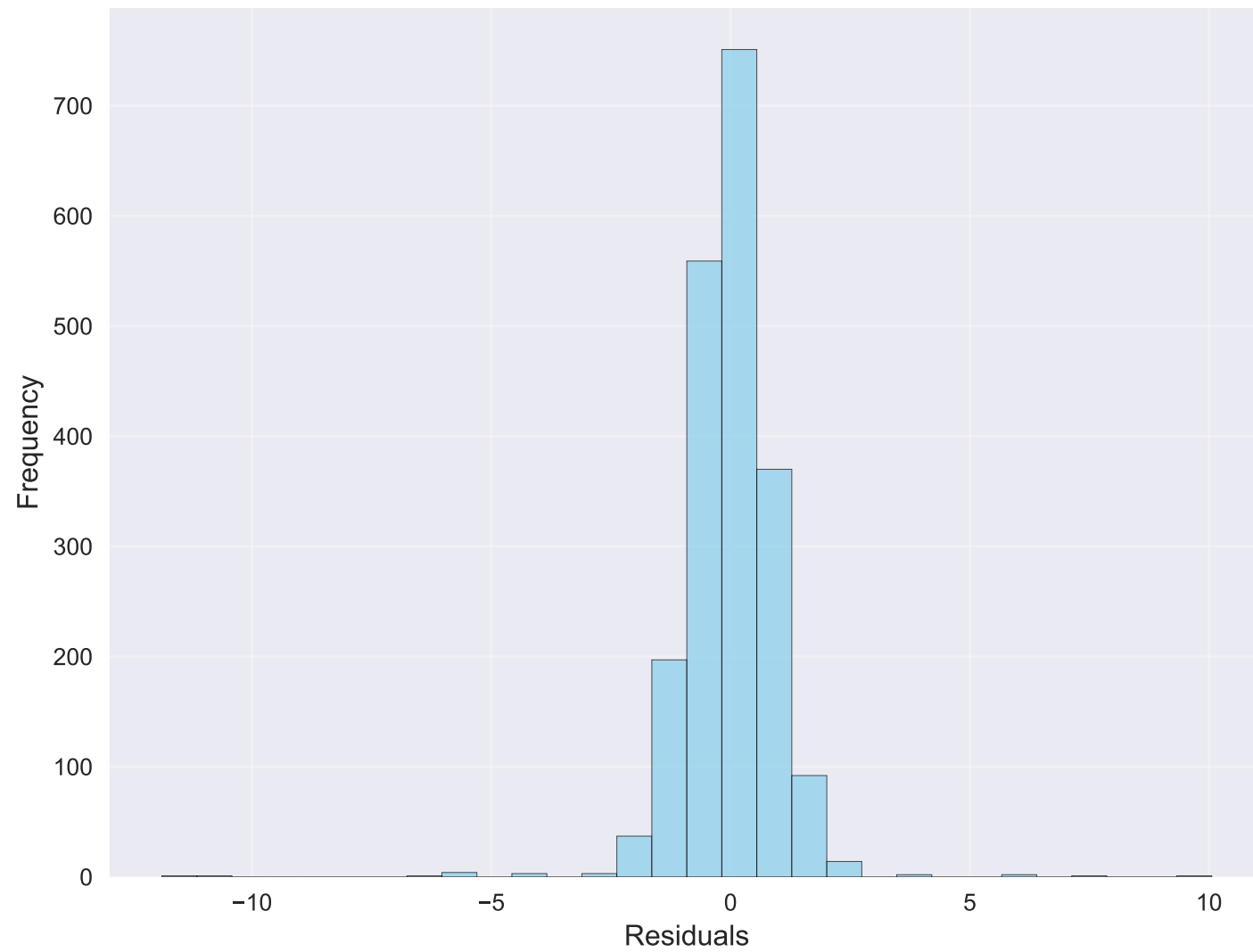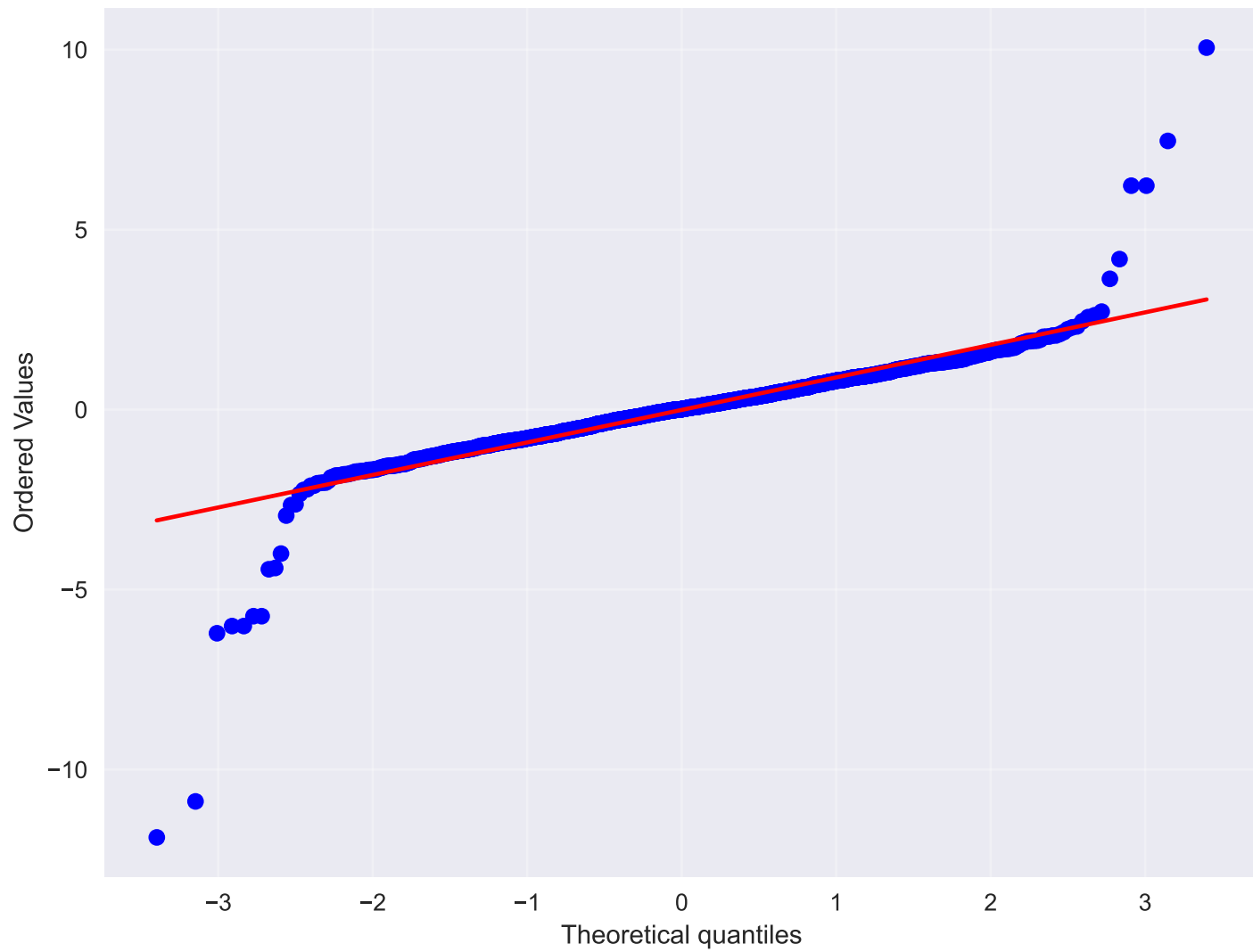
Extra Trees: Actual vs Predicted Values

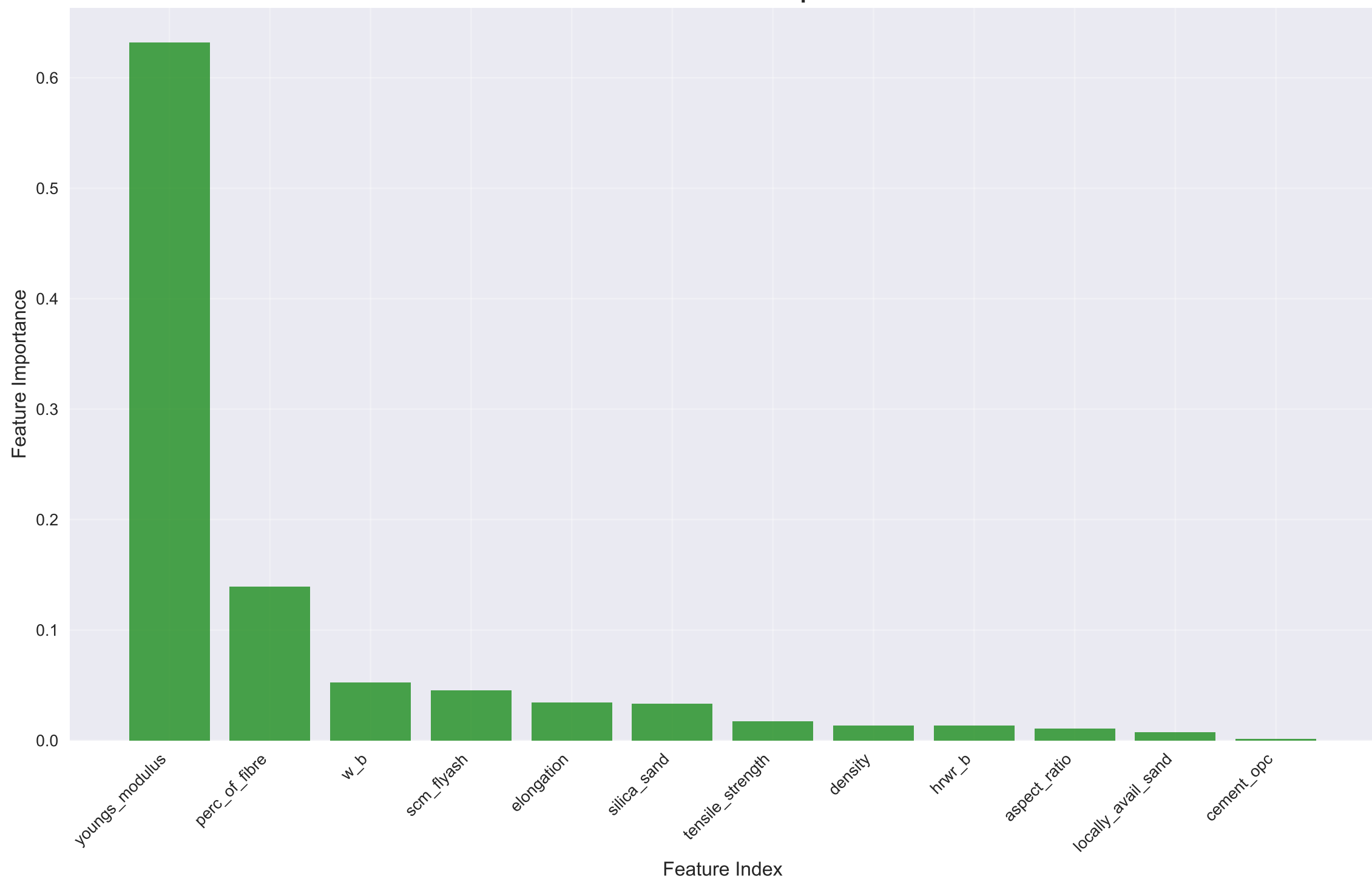R² = 0.9820

Extra Trees: Residual Plot

Distribution of Residuals

Q-Q Plot of Residuals

Extra Trees: Feature Importance

Extra Trees: Performance Metrics Summary