

AI-DRIVEN AGRICULTURE YIELD PREDICTION & MARKET INSIGHTS SYSTEM

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Review 2: System Design and Implementation Progress



Work Completed So Far

- Dataset collected from open agricultural sources.
- Data preprocessing and feature selection completed.
- Initial machine learning models trained and evaluated.



SYSTEM DESIGN OVERVIEW

- Data Collection & Preprocessing
- AI-Based Yield Prediction
- Market Insights Forecasting
- Dashboard Visualization



Algorithms Used



- Random Forest & Linear Regression for yield prediction.
- ARIMA for price forecasting.
- Performance metrics:
Accuracy, RMSE.

Implementation Snapshots

- Screenshot of data preprocessing.
- Model training output.
- Yield prediction chart (example).



Challenges Faced

- Incomplete datasets and noisy data.
- Model accuracy variations across crops.
- Integration of real-time data sources.



Next Steps

- Integrate dashboard and visualization module.
- Improve accuracy with LSTM models.
- Begin market insights module testing.



THANKYOU