



# E-SMART DASH

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# INTRODUCTION

- Web-based interactive dashboard
- Converts Excel data into dynamic, interactive visuals
- AI-driven trend analysis for deeper insights
- Enhanced data visualization for better decision-making
- Simplifies complex data for accessibility and action





# OBJECTIVES

- Develop a flexible dashboard that supports any Excel file.
- Enable interactive data visualization..
- Utilize AI for trend detection and insights.
- Provide export and notification features

# PROBLEM STATEMENT

- Many users struggle with analyzing raw data.
- Existing tools require manual configuration.
- Lack of AI-driven insights in traditional dashboards.
- No simple, automated solution for data visualization.



# METHODOLOGY

## RESPONSIVE DESIGN

CSS Styling,  
Live Clock,  
Modal Usage

## BACKEND

Flask for data processing and API integration.

## PDF REPORT GENERATION

Library Used:  
jsPDF

## VISUALIZATION

Plotly, Chart.js  
for dynamic charts.

## AI TREND DETECTION

Linear regression for insights.



# EXPECTED OUTCOME



1. A fully functional, user-friendly dashboard.
2. Automatic visualization of uploaded data.
3. AI-based trend detection for deeper insights.
4. Live clock for tracking the time.



# APPLICATIONS

- Finance & Budgeting: Analyzing income and expenses.
- Education: Student performance tracking.
- Business Analytics: Sales and revenue forecasting.
- Healthcare: Patient data trend analysis.
- Research & Development: Statistical insights.

# CONCLUSION / FUTURE WORK

- eSmart Dash integrates file upload, dynamic visualizations, AI-based insights, and PDF export in one interactive platform.
- It simplifies data analysis for users with no coding background.
- The dashboard promotes informed decision-making through visual and trend-based data interpretation.

- Integrate advanced ML models for predictive analytics.
- Enable real-time data support via APIs or live feeds.
- Improve mobile compatibility and responsive design.
- Allow custom dashboard themes and layout personalization.
- Add secure user login and personal data storage features.



# THANK YOU

