

An internship in
Google Cloud Generative AI
by
SmartInternz

Project Name : Gemini Pro Financial Decoder: Transforming Complex Data into Actionable Insights

Project Id : LTVIP2026TMIDS66286

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Team Members and Roles:

- | | |
|----------------------------|---------------------------------|
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ABSTRACT

In today's data-driven financial environment, organizations and individuals generate large volumes of complex financial data that are often difficult to interpret accurately and efficiently. Traditional financial analysis methods are time-consuming, require expert knowledge, and are prone to human error. This project, Gemini Pro Financial Decoder, proposes an AI-powered solution that transforms complex financial documents into clear, actionable insights to support informed decision-making.

The system leverages Gemini Pro, a large language model, to analyze financial statements such as balance sheets, income statements, cash flow reports, and market data. Uploaded financial documents are preprocessed, structured, and interpreted to extract key metrics, identify trends, detect risks, and generate easy-to-understand summaries. The solution provides a user-friendly web interface that enables users to upload documents, ask natural language queries, and visualize insights through charts and reports.

The proposed system ensures high performance, scalability, security, and usability while maintaining data privacy. By simplifying financial analysis and making insights accessible to both finance and non-finance users, the Gemini Pro Financial Decoder reduces analysis time, improves accuracy, and enhances confidence in financial decision-making. This project demonstrates the effective application of generative AI in financial analytics and decision support systems.

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1. INTRODUCTION

1.1 Project Overview

The Gemini Pro Financial Decoder provides a user-friendly platform where users can upload financial documents and receive clear summaries, key financial metrics, risk indicators, and actionable recommendations. The system preprocesses financial data, applies intelligent analysis using Gemini Pro, and presents insights through interactive visualizations and downloadable reports.

This project aims to reduce manual effort, minimize errors in financial interpretation, and make financial insights accessible to both finance professionals and non-finance users. By integrating modern web technologies with advanced generative AI, the Gemini Pro Financial Decoder supports faster, more accurate, and confident financial decision-making, demonstrating the practical application of AI in financial analytics.

1.2 Purpose

The purpose of the Gemini Pro Financial Decoder project is to design and develop an intelligent system that simplifies the analysis of complex financial data and converts it into meaningful, actionable insights. Financial reports and statements often contain large volumes of numerical and textual information that are difficult to interpret, especially for non-finance users. This project aims to bridge the gap between raw financial data and informed decision-making.

The system leverages the power of Gemini Pro, a large language model, to automatically analyze financial documents such as balance sheets, income statements, cash flow reports, PDFs, and spreadsheets. By doing so, it reduces manual analysis effort, minimizes human errors, and improves the speed and accuracy of financial interpretation.

The overall purpose is to provide a user-friendly, secure, and scalable solution that enables business owners, analysts, investors, and non-finance professionals to understand financial performance, identify risks, and make confident, data-driven decisions without requiring deep financial expertise.

2. IDEATION PHASE

2.1 Define the Problem

In the current financial landscape, organizations and individuals generate large volumes of financial data in the form of balance sheets, income statements, cash flow reports, and market documents. These documents are often complex, unstructured, and filled with technical terminology, making them difficult to interpret accurately. Manual financial analysis is time-consuming, requires expert knowledge, and is prone to human errors, which can lead to delayed or incorrect decision-making.

Many business owners, investors, and non-finance professionals lack access to intelligent tools that can simplify financial data and present meaningful insights in an easy-to-understand format. Therefore, there is a need for an automated, AI-driven solution that can decode complex financial data and transform it into actionable insights to support faster, more confident financial decisions.

2.2 Empathy & Discover

The empathy and discovery stage focuses on understanding the users, their challenges, and their expectations when dealing with financial data. The primary users of the Gemini Pro Financial Decoder include financial analysts, business owners, investors, and non-finance professionals.

Users often feel overwhelmed by large spreadsheets and lengthy financial reports. They struggle to identify key metrics, risks, and trends within limited timeframes. Non-finance users, in particular, face difficulty understanding financial jargon and interpreting numerical data, leading to uncertainty and hesitation in decision-making.

Through empathy mapping, it was discovered that users need a system that provides clear explanations, visual insights, and quick summaries while ensuring data security and accuracy. Understanding these user pain points helps shape a solution that is intuitive, reliable, and user-centric.

2.3 Brainstorm & Idea Prioritization

During the brainstorming phase, multiple ideas were generated to address the identified problems. These ideas included automated financial report summarization, extraction of key financial metrics, AI-based risk and anomaly detection, interactive dashboards, and natural language question-answering over financial documents.

The generated ideas were grouped and evaluated based on feasibility, user impact, and scalability. High-priority ideas included AI-powered document summarization, trend and risk analysis, and simplified natural language explanations. Features such as interactive visual dashboards and downloadable reports were also prioritized to enhance user experience.

By prioritizing ideas that offer maximum value with practical implementation, the Gemini Pro Financial Decoder was designed as an intelligent, scalable solution capable of transforming complex financial data into clear, actionable insights for diver

3. REQUIREMENT ANALYSIS

Requirement analysis is a crucial phase that focuses on understanding user interactions, defining system requirements, modeling data flow, and selecting appropriate technologies. For the **Gemini Pro Financial Decoder**, this phase ensures that the system is user-centric, efficient, secure, and technically feasible.

3.1 Customer Journey Map

The customer journey map describes the step-by-step interaction of users with the system, from accessing the platform to obtaining actionable financial insights.

- **Access Platform-** The user logs into the web application using secure authentication.
- **Upload Financial Documents-** The user uploads financial documents such as balance sheets, income statements, PDFs, or Excel files.
- **Data Processing -** The system validates, preprocesses, and structures the uploaded financial data.
- **AI Analysis-** Gemini Pro analyzes the data to extract key metrics, trends, risks, and insights.
- **Insight Visualization-** The user views summaries, charts, and explanations on the dashboard.
- **Decision Support-** The user downloads reports or uses insights to make informed financial decisions.

3.2 Solution Requirement

Functional Requirements

- Upload and preview financial documents
- Extract and analyze key financial metrics
- Generate summaries, insights, and risk indicators
- Provide visual dashboards and downloadable reports
- Ensure secure handling of financial data

Non-Functional Requirements

- High usability with simple navigation and tooltips
- Data security and privacy compliance
- High system availability and reliability
- Fast response time and scalable performance

3.3 Data Flow Diagram (DFD)

The Data Flow Diagram represents how data moves through the Gemini Pro Financial Decoder system.

- **Input:** Financial documents and user queries
- **Process:** Data ingestion, preprocessing, AI-based analysis using Gemini Pro
- **Storage:** Databases for documents, logs, and results
- **Output:** Financial summaries, insights, dashboards, and reports

The DFD ensures clarity in data movement, processing responsibilities, and system boundaries.

3.4 Technology Stack

The technology stack defines the tools and platforms used to build the system:

- **Frontend:** React.js / Vue.js, Tailwind CSS
- **Backend:** FastAPI / Flask (Python)
- **AI Engine:** Gemini Pro (Large Language Model)
- **Data Processing:** Pandas, NumPy
- **Visualization:** Plotly, Matplotlib
- **Database:** PostgreSQL / MongoDB
- **Security:** JWT / OAuth2, HTTPS / SSL
- **Deployment:** Cloud platform with containerization support

4. PROJECT DESIGN

The project design phase focuses on mapping the identified problem to an effective solution, defining the proposed approach, and describing the overall system architecture. This phase ensures that the solution is feasible, scalable, and aligned with user requirements.

4.1 Problem–Solution Fit

The core problem identified in this project is the difficulty in understanding and analyzing complex financial data due to its volume, structure, and technical nature. Traditional financial analysis methods require significant time and domain expertise, making them unsuitable for quick decision-making, especially for non-finance users.

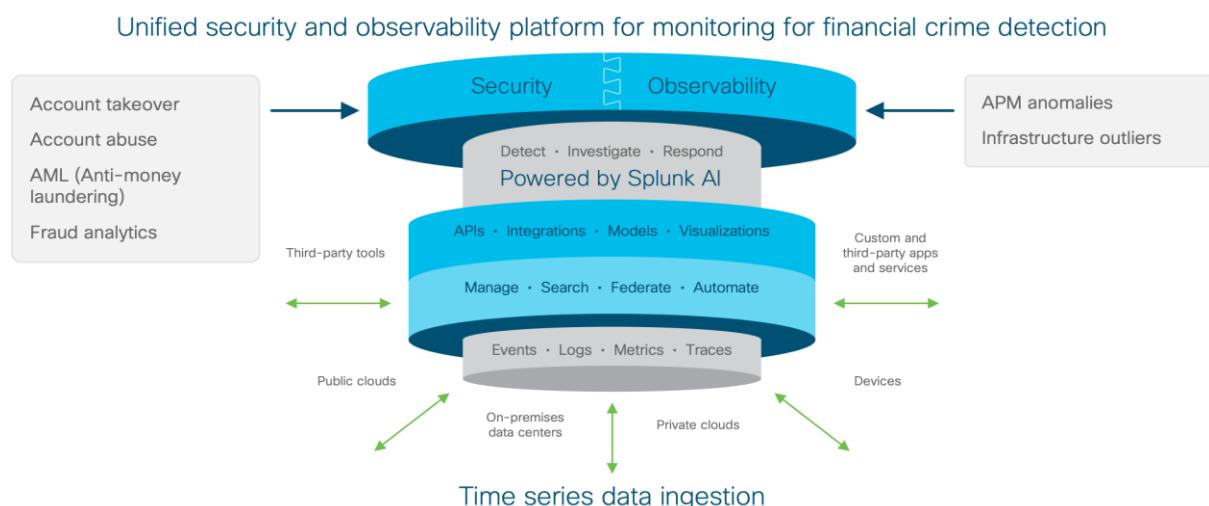
The **Gemini Pro Financial Decoder** directly addresses this problem by using generative AI to automate financial data analysis. By converting raw financial documents into structured data and applying intelligent analysis, the system provides simplified explanations, visual insights, and risk indicators. This strong alignment between user challenges and AI-driven capabilities ensures an effective problem–solution fit.

4.2 Proposed Solution

The proposed solution is a web-based, AI-powered financial analysis system that leverages **Gemini Pro** to decode complex financial data into actionable insights. Users can upload financial documents such as PDFs, Excel sheets, and CSV files, which are then preprocessed and analyzed by the AI engine.

The system extracts key financial metrics, identifies trends and anomalies, and generates concise summaries and visualizations. Users can interact with the system using natural language queries to gain deeper insights. The solution emphasizes usability, accuracy, scalability, and data security, making it suitable for businesses, investors, and non-finance users.

4.3 Solution Architecture



The solution architecture follows a modular and layered design to ensure flexibility and scalability. The frontend layer provides a user-friendly interface for document upload, queries, and visualization. The backend layer manages workflows, authentication, and data processing.

The AI intelligence layer integrates the Gemini Pro model to perform financial analysis and insight generation. The data layer securely stores uploaded documents, analysis results, and user logs. Security mechanisms such as authentication, authorization, and encrypted communication are applied across all layers.

This architecture ensures seamless data flow, efficient processing, and reliable delivery of financial insights while maintaining high performance and data privacy.

5. PROJECT PLANNING & SCHEDULING

5.1 Project Planning

The project planning for Gemini Pro Financial Decoder: Transforming Complex Data into Actionable Insights was carried out by dividing the entire development process into well-defined phases. Each phase was assigned specific tasks and responsibilities among team members to ensure smooth execution and effective collaboration.

The planning process began with requirement gathering and problem analysis, followed by ideation, system design, and technology selection. Subsequently, development activities such as frontend design, backend implementation, AI model integration, and data processing were planned. Testing and validation were scheduled to ensure accuracy, performance, and security of the system. Finally, documentation and deployment planning were included to complete the project lifecycle.

Sprint	Functional Requirement (Epic)	User Story No	User Story / Task	Story Points	Priority	Team Members
Sprint-1	System Overview	USN-1	As a user, I want to upload financial documents so that I can analyze financial data automatically	2	High	N Mahesh Babu
Sprint-1	Document Processing	USN-2	As a financial analyst, I want the system to extract key financial metrics so that I can review them quickly	1	High	Peddaveti Salmon Raju
Sprint-2	Financial Analysis	USN-3	As a business owner, I want to view summarized insights and trends so that I can understand financial performance	2	Medium	Mummasani Madhulatha
Sprint-3	Risk Detection	USN-4	As an investor, I want the system to highlight risks and anomalies so that I can make informed decisions	2	Medium	N Mahesh Babu
Sprint-4	Visualization & Reports	USN-5	As a user, I want downloadable financial reports and charts so that I can share insights easily	1	Low	Urukundappagari Ramudu

Project Tracker, Velocity & Burndown Chart

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed	Sprint Release Date
Sprint-1	20	6 Days	20-Jan-2026	23-Jan-2026	20	20-Jan-2026
Sprint-2	40	6 Days	29-Jan-2026	2-Feb-2026	20	29-Jan-2026
Sprint-3	30	6 Days	7-Feb-2026	7-Feb-2026	20	7-Feb-2026
Sprint-4	20	6 Days	16-Feb-2026	16-Feb-2026	20	16-Feb-2026

6. FUNCTIONAL AND PERFORMANCE TESTING

Testing is a critical phase to ensure that the system functions correctly and meets performance expectations. For the Gemini Pro Financial Decoder, both functional and performance testing were conducted to validate accuracy, reliability, and efficiency of financial data analysis.

Model performance testing focuses on evaluating the effectiveness and efficiency of the **Gemini Pro** model in analyzing financial data and generating actionable insights. The objective is to ensure that the AI model produces accurate, relevant, and timely outputs when processing complex financial documents.

6.1 Performance Testing: Model Performance Testing

The model was tested using various financial documents such as balance sheets, income statements, and Excel-based financial data. The key performance parameters evaluated include response time, accuracy of insights, consistency of results, and scalability under multiple requests.

Gemini Pro Financial Decoder

Upload financial documents to view charts and AI-generated summaries.

Upload Balance Sheet (CSV or XLSX)



Drag and drop file here

Limit 200MB per file • CSV, XLSX

Browse files

Upload Profit and Loss Statement (CSV or XLSX)



Drag and drop file here

Limit 200MB per file • CSV, XLSX

Browse files

Upload Cash Flow Statement (CSV or XLSX)



Drag and drop file here

Limit 200MB per file • CSV, XLSX

Browse files

Gemini Pro Financial Decoder

Upload financial documents to view charts and AI-generated summaries.

Upload Balance Sheet (CSV or XLSX)



Drag and drop file here

Limit 200MB per file • CSV, XLSX

Browse files



balance_sheet.csv 104.0B



Upload Profit and Loss Statement (CSV or XLSX)



Drag and drop file here

Limit 200MB per file • CSV, XLSX

Browse files



profit_loss.csv 109.0B



Upload Cash Flow Statement (CSV or XLSX)



Drag and drop file here

Limit 200MB per file • CSV, XLSX

Browse files



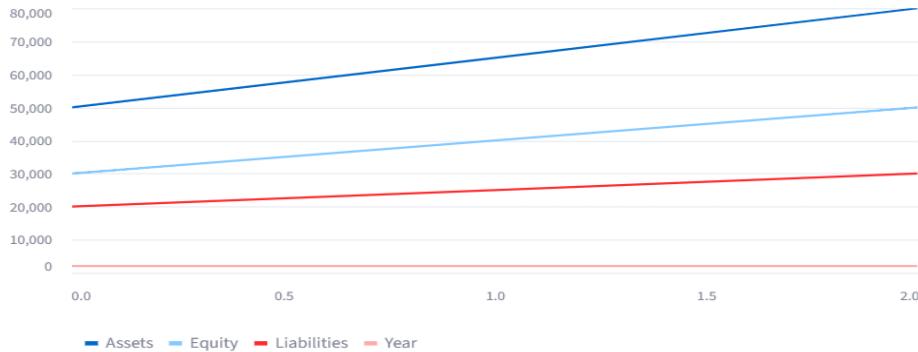
cash_flow.csv 120.0B



7.RESULT

Balance Sheet

	Year	Assets	Liabilities	Equity
0	2021	50000	20000	30000
1	2022	65000	25000	40000
2	2023	80000	30000	50000



Generate AI Summary for Balance Sheet

AI Summary

As a financial analyst, here's a clear and simple summary of the provided Balance Sheet data, highlighting key trends and important insights:

Balance Sheet Analysis: 2021-2022 Summary

The company experienced significant growth and improved its financial structure between 2021 and 2022.

Key Trends & Insights:

1. Robust Asset Growth:

- Total Assets increased substantially from ~~50,000~~ in 2021 to 65,000 in 2022, representing a 30% increase. This indicates business expansion, potentially through increased operational capacity, investments, or successful sales driving asset accumulation.

2. Healthy Equity Expansion:

- Shareholder Equity saw the strongest proportional growth, increasing by ~~10,000~~ (from 30,000 to \$40,000), which is a 33.3% rise. This is a very positive sign, typically reflecting retained earnings from profitable operations or new equity investment, significantly enhancing the company's financial foundation.

3. Controlled Liability Growth & Improved Solvency:

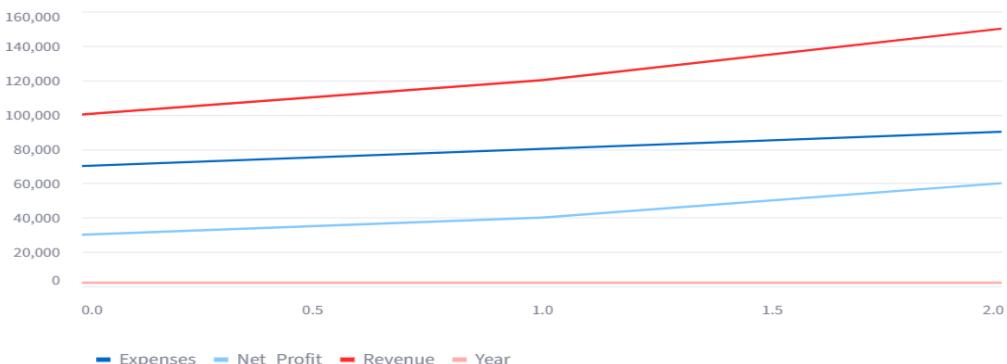
- Liabilities also rose by ~~5,000~~ (from 20,000 to \$25,000), representing a 25% increase.
- Crucially, liabilities grew at a slower rate than both assets and equity. This is a positive indicator.
- Improved Funding Structure: The company's reliance on debt relative to equity has decreased. The Debt-to-Equity ratio improved from 0.67 (20,000/30,000) in 2021 to 0.63 (25,000/40,000) in 2022. This indicates better solvency and reduced financial risk, as a larger proportion of assets are now funded by owner's capital rather than borrowed money.

Overall Summary:

In summary, the company's balance sheet data reflects a financially growing and strengthening entity. The significant growth in its asset base, primarily funded by a robust increase in shareholder equity, coupled with a relatively lower reliance on debt, points to a healthy financial trajectory, improved solvency, and a more resilient financial position. This trend suggests strong operational performance and effective capital management.

Profit and Loss Statement

	Year	Revenue	Expenses	Net_Profit
0	2021	100000	70000	30000
1	2022	120000	80000	40000
2	2023	150000	90000	60000



Generate AI Summary for Profit and Loss Statement

AI Summary

Here's a clear and simple summary of the provided Profit and Loss Statement data, highlighting key trends and important insights:

Financial Performance Summary: 2021 vs. 2022

The company demonstrated strong financial growth and improved profitability between 2021 and 2022.

Key Trends & Insights:

1. Robust Revenue Growth:

- Revenue increased significantly from 100,000 in 2021 to 120,000 in 2022, representing a 20% year-over-year increase. This indicates effective sales strategies or expanding market demand.

2. Controlled Expense Management:

- Expenses rose from 70,000 in 2021 to 80,000 in 2022, an increase of 14.3%. Crucially, this growth rate in expenses was lower than the revenue growth rate.

3. Excellent Net Profit Expansion:

- Net Profit saw an impressive leap from 30,000 in 2021 to 40,000 in 2022, marking a 33.3% increase. This indicates a highly positive trend.

4. Improved Profitability Margin:

- The company's net profit margin (Net Profit / Revenue) improved from 30% in 2021 ($30k/100k$) to 33.3% in 2022 ($40k/120k$). This indicates that the company is not only growing sales but also becoming more efficient at converting those sales into profit.

Overall Conclusion:

The data suggests a very positive performance, with the company successfully growing its top-line revenue while effectively managing its expenses, leading to disproportionately higher growth in net profit and an improvement in overall profitability. This indicates strong operational leverage and a healthy financial trajectory.

Cash Flow Statement

	Year	Operating_Cash	Investing_Cash	Financing_Cash
0	2021	20000	-5000	3000
1	2022	25000	-7000	4000
2	2023	30000	-6000	5000



Generate AI Summary for Cash Flow Statement

AI Summary

Here's a summary and analysis of the provided Cash Flow Statement data:

Cash Flow Statement Summary & Analysis (2021-2022)

This company shows a **positive and strengthening cash flow profile** over the two-year period.

Key Trends and Important Insights:

1. Strong and Growing Operating Cash Flow (OCF):

- Trend:** Operating Cash Flow increased significantly from \$20,000 in 2021 to \$25,000 in 2022.
- Insight:** This is the most crucial takeaway. It indicates that the company's core business activities are highly profitable and generating an increasing amount of cash. This strong operational performance provides a solid foundation for funding growth and managing debt.

2. Increased Investment in Growth (Investing Cash Flow):

- Trend:** Investing Cash Flow remained negative, increasing from -\$5,000 in 2021 to -\$7,000 in 2022.
- Insight:** Negative investing cash flow typically means the company is spending money on assets (like property, plant, equipment, or acquisitions) for future growth. The *increase* in this outflow suggests a stepped-up commitment to capital expenditure or expansion initiatives. This is generally a positive sign of a forward-looking strategy, provided these investments yield good returns.

3. Increased Capital Raising (Financing Cash Flow):

- Trend:** Financing Cash Flow increased from \$3,000 in 2021 to \$4,000 in 2022.
- Insight:** Positive financing cash flow indicates the company is raising money through debt or equity. The increase suggests they brought in more capital from external sources in 2022. This additional capital could be used to support the increased investing activities, manage operations, or pay down existing obligations. Given the strong operating cash flow, this financing isn't necessarily a sign of distress but rather a strategic decision to fund growth or optimize the capital structure.

Overall Conclusion:

The company appears to be in a healthy financial position, demonstrating **robust and growing cash generation from its core business**. This allows them to significantly invest in their future through increased capital expenditures. While they are also raising additional capital through financing activities, the strong operating cash flow indicates they are generating more than enough cash internally to cover their current investment needs, providing flexibility and supporting their growth trajectory. This is generally a very favorable cash flow pattern, suggesting a well-managed and expanding enterprise.

8. ADVANTAGES AND DISADVANTAGES

Advantages

1. Automated Financial Analysis

The system automatically analyzes complex financial documents, reducing manual effort and saving time.

2. Actionable Insights

Converts raw financial data into clear summaries, trends, and risk indicators to support better decision-making.

3. User-Friendly Interface

Enables both finance and non-finance users to understand financial information easily.

4. High Accuracy and Consistency

AI-based analysis minimizes human errors and provides consistent results.

5. Scalable and Flexible

Supports multiple users and large datasets with cloud-ready architecture.

6. Secure Data Handling

Ensures data privacy using authentication, encryption, and secure communication.

Disadvantages

1. Dependency on Data Quality

Poor or incomplete financial data may affect the accuracy of insights.

2. Internet Dependency

Requires a stable internet connection to access Gemini Pro APIs.

3. Limited Domain Context

AI-generated insights may require expert validation in complex financial scenarios.

4. Initial Setup Cost

Deployment and cloud infrastructure may involve initial costs.

9.CONCLUSION

The Gemini Pro Financial Decoder project successfully demonstrates the application of generative AI in simplifying and automating financial data analysis. The system effectively transforms complex financial documents into clear, actionable insights, enabling users to make informed decisions with greater confidence and efficiency.

By leveraging Gemini Pro, the solution reduces manual effort, minimizes errors, and provides accurate summaries, trend analysis, and risk identification. The user-friendly interface, secure data handling, and scalable architecture make the system suitable for both finance professionals and non-finance users.

Overall, this project highlights the potential of AI-driven financial analytics in enhancing decision-making processes and improving accessibility to financial insights. The proposed system serves as a reliable, efficient, and intelligent tool for modern financial analysis and decision support.

10. FUTURE SCOPE

The Gemini Pro Financial Decoder has significant potential for future enhancements and expansion. As financial data and AI technologies continue to evolve, several improvements can be incorporated to increase the system's functionality and impact.

In the future, the system can be extended to support real-time financial data integration from stock markets, banking systems, and accounting software. Advanced predictive analytics and forecasting features can be added to provide future financial trends and risk predictions. Integration with additional AI models and domain-specific financial knowledge bases can further improve the accuracy and depth of insights.

The system can also be enhanced with multi-language support, making it accessible to a wider user base. Mobile application development, voice-based interaction, and personalized recommendation features can improve usability. Additionally, stronger compliance mechanisms and explainable AI features can be incorporated to meet evolving regulatory requirements and increase user trust.

Overall, the future scope of this project highlights its adaptability, scalability, and potential to become a comprehensive AI-driven financial decision support system.

11.APPENDIX

app.py:

```
import streamlit as st
import pandas as pd
import numpy as np
import os
import google.generativeai as genai

# -----
# PAGE CONFIG (MUST BE FIRST)
# -----
st.set_page_config(page_title="Gemini Pro Financial Decoder")

# -----
# APP TITLE (THIS WAS MISSING)
# -----
st.title("💰 Gemini Pro Financial Decoder")
st.write("Upload CSV files to generate AI-powered financial insights.")

# -----
# API KEY (CORRECT WAY)
# -----
API_KEY = os.getenv("GOOGLE_API_KEY")

if not API_KEY:
    st.error("❌ GOOGLE_API_KEY not set")
    st.stop()

genai.configure(api_key=API_KEY)
model = genai GenerativeModel("gemini-pro")

# -----
```

```

# FILE UPLOAD
# -----
st.subheader("📝 Upload Financial Files")

balance_file = st.file_uploader("Balance Sheet CSV", type="csv")
pl_file = st.file_uploader("Profit & Loss CSV", type="csv")
cash_file = st.file_uploader("Cash Flow CSV", type="csv")

# -----
# FUNCTIONS
# -----
def load_csv(file):
    if file:
        return pd.read_csv(file)
    return None

def generate_summary(df, name):
    if df is None:
        return "⚠ No file uploaded"

    prompt = f"""
Analyze this {name} data and give:
- Key insights
- Strengths
- Weaknesses
    """

    Data:
    {df.head(5)}
    """
    response = model.generate_content(prompt)
    return response.text

```

```
def visualize(df, title):
    if df is None:
        return

    st.subheader(title)
    st.dataframe(df)

    num = df.select_dtypes(include=np.number)
    if not num.empty:
        st.line_chart(num)

# -----
# BUTTON (THIS EXECUTES UI)
# -----

if st.button("🚀 Generate Report"):
    with st.spinner("Analyzing..."):

        balance_df = load_csv(balance_file)
        pl_df = load_csv(pl_file)
        cash_df = load_csv(cash_file)

    st.success("✅ Analysis Complete")

    st.markdown("## 📊 Balance Sheet")
    st.write(generate_summary(balance_df, "Balance Sheet"))
    visualize(balance_df, "Balance Sheet Data")

    st.markdown("## 💰 Profit & Loss")
    st.write(generate_summary(pl_df, "Profit & Loss"))
    visualize(pl_df, "Profit & Loss Data")

    st.markdown("## 💰 Cash Flow")
    st.write(generate_summary(cash_df, "Cash Flow"))
    visualize(cash_df, "Cash Flow Data")
```

requirements.txt:

- streamlit
- pandas
- matplotlib
- langchain
- langchain-google-genai
- google-generativeai

DATASET:

- Balance_sheet.csv
- Profit_and_loss.csv
- Cash_flow.csv

Demovideo:

<https://drive.google.com/drive/folders/1TIWwzPLkpCxHKjWtoik6RlvW4bw1An4Y?usp=sharing>

Github: https://github.com/Mahesh324-Babu/Financial_decoder_using_gemini_Pro