

**PRESENTS** 

## Agentic Al Day

Build the next generation of intelligent agents



#### **Team Details**

- Team name: NoChatGPT
- **Team leader name:** Adepu Nithinvas
- **Problem statement:** Receipt Management for Google Wallet





#### Brief about the idea

A closed-loop system where receipts self-transform into executable financial actions inside Google Wallet—minimal human intervention required

#### 1. Al Digestion

- Users snap/upload receipts → Gemini extracts items, prices, and context

#### 2. Smart Enrichment

- Data pipelines (Dataflow/Firestore) merge with Merchant databases (Retail API), Spending history (BigQuery ML), Local offers (Maps Platform)

#### 3. Action Generation

- Vertex Al Agent decides optimal output like Refund claim pass (for overcharges), Dynamic shopping list (for pantry tracking) ,Subscription cancel button (for unused services)

#### 4. Wallet Execution

- Passes pushed via Google Wallet API → Users take action with one tap (no apps, no forms).

(Gemini handles multimodal ingestion + text extraction. Vertex Al Agent interprets and determines the best financial action to take)





#### **Opportunities**

How different is it from any of the other existing ideas?

Aspect	Competitors	Project Raseed/Our Idea
Data Ingestion	Manual entry/OCR limitations	Multimodal Gemini processing (images/videos/ live streams in 100+ languages)
Insight Delivery	Separate dashboards	Native Google Wallet integration with dynamic passes
Proactivity	User-initiated queries	Al-driven push notifications for savings opportunities
Actionability	Static reports	Executable passes (shopping lists, subscription cancellations)

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#### **Opportunities**

- How will it be able to solve the problem?
  - Our Al-first approach automates the entire receipt-to-insight pipeline by:
    - Eliminating manual entry with multimodal Gemini AI (photos/videos/voice → structured data),
    - Embedding actions in Google Wallet (dynamic passes for savings/refunds vs. static reports),
    - Proactively optimizing finances (real-time alerts + predictive budgeting via BigQuery ML),
    - Reducing user effort to near-zero (e.g., auto-canceling subscriptions via Wallet passes).

USP of the proposed solution

Closed-loop automation	From receipt image → AI extraction → Wallet pass generation → push notification - Fully autonomous (no human-in-the-loop)	
Context-aware pass generation	Dynamically creates different pass types: Refund claims (for overcharges), Savings triggers (e.g., "Buy at Store X tomorrow for 15% off"), Subscription controls (cancel/renewal reminders)	
Real-time enrichment	Augments receipt data with Merchant price histories (via Retail API), User spending patterns (BigQuery ML), Localized offers (Google Maps Platform)	

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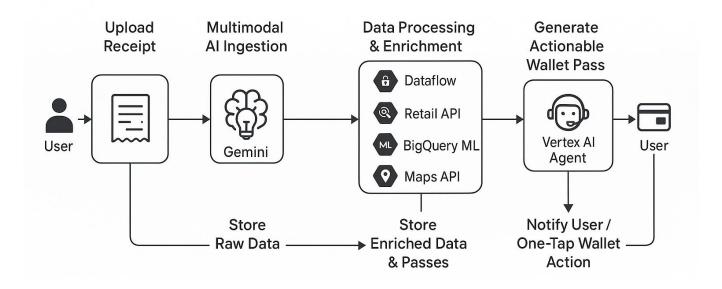
#### List of features offered by the solution

Multimodal Receipt Ingestion	Accepts photos, videos, or voice descriptions of receipts - Supports 100+ languages via Gemini's OCR/NLP
Zero-Touch Data Extraction	Auto-detects items, prices, taxes, and merchant details - Categorizes spending (e.g., "Food & Beverage → Coffee")
Smart Pass Generation	Converts receipts into executable Google Wallet passes: One-tap refund requests, Subscription cancellation shortcuts Dynamic shopping lists
Proactive Financial Insights	Real-time alerts for Overcharges/duplicate bills Better nearby deals Budget breaches
Local-language support	Context-aware responses (e.g., recipe suggestions based on purchases)
Automated Savings Tools	Price-match guarantees (auto-generates claim passes) - Recurring subscription audits, Carbon footprint tracking
Seamless Wallet Integration	Native Google Wallet API integration - Auto-updating passes (e.g., "You've saved ₹1,280 this month!")
Privacy-First Architecture	On-device processing for sensitive data ,IAM-controlled access to financial insights





#### Process flow diagram or use-case diagram





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#### Technologies to be used in the solution

#### 1. AI/ML Layer

- Gemini 1.5 Pro
- Vertex Al
- Dialogflow CX
- Recommendations Al

#### 2. Data Processing

- Cloud Functions
- Dataflow
- Dataproc

#### 3. Storage & Databases

- Firestore
- BigQuery
- Cloud Storage

#### 4. APIs & Integrations

- Google Wallet API
- Retail API
- Google Maps Platform
- Cloud Endpoints

#### 5. Analytics & Monitoring

- Looker (Google Data Studio)
- Cloud Logging/Monitoring
- Data Loss Prevention API

#### 6. Frontend & Mobile

- Flutter
- Angular
- Firebase SDK

#### 7. Security & DevOps

- IAM & Conditional Access
- Artifact Registry
- Cloud Build

#### 8. Specialized Services

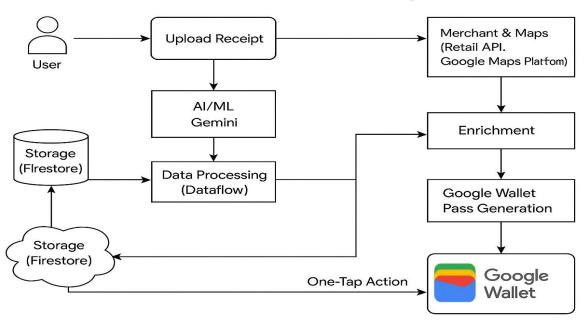
- Video Intelligence API
- Document Al





#### Architecture diagram of the proposed solution

#### **Architecture Diagram**





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### Thank you!