



Finfluencer Accuracy Leaderboard (India)

Project Documentation

1. Project Overview

Project Name

Finfluencer Accuracy Leaderboard (India)

Project Type

AI-powered finance analytics & public accountability platform

Inspiration

Inspired by projects like Alpha Arena (nof1.ai), but focused on **Indian finance YouTubers** and **long-term prediction accuracy** instead of short-term alpha calls.

2. Problem Statement

In India, finance YouTubers and influencers (finfluencers) regularly publish market predictions and macroeconomic opinions such as:

- Stock market direction predictions
- Index level expectations (NIFTY, SENSEX)
- Sectoral outlooks
- Asset allocation advice (equity vs gold vs real estate)

These predictions influence **millions of retail investors**, yet:

- There is **no systematic tracking** of prediction accuracy
- Creators highlight successful calls and ignore failed ones
- Viewers lack an objective way to judge long-term credibility

Core Problem

There is **no transparent, data-driven system** to evaluate how accurate these finfluencers actually are over time.

3. Project Objective

To build a **public, neutral, evidence-based leaderboard** that:

1. Extracts financial predictions from YouTube videos
2. Compares predictions against real market outcomes
3. Scores prediction accuracy objectively
4. Ranks finfluencers based on historical performance

This platform **does not provide investment advice** and focuses only on **retrospective analysis**.

4. Target Audience

Primary Users

- Retail investors
- Finance learners
- Analysts and researchers

Secondary Users

- Finfluencers themselves
 - Journalists and media
 - Fintech communities
-

5. Initial Creator Scope

Examples of creators to include initially:

- Akshat Shrivastava
- Ankur Warikoo
- CA Rachana Ranade
- Pranjal Kamra
- Asset Yogi

The platform is **creator-agnostic** and expandable.

6. Key Insight

Finance videos often contain **implicit or explicit predictions**, such as:

- “Markets will correct soon”
- “Gold will outperform equities”
- “This stock will struggle in the next year”

These statements can be:

- Extracted from transcripts
- Evaluated after sufficient time passes
- Compared against factual market data

This enables **objective scoring**.

7. High-Level System Architecture

YouTube API

↓
Video Metadata & Transcripts

↓
Prediction Extraction (LLM)

↓
Prediction Structuring

↓
Market Outcome Retrieval

↓
Prediction Evaluation (LLM)

↓
Scoring Engine

↓
Leaderboard & Creator Pages

8. Technology Stack

Frontend

- Next.js (App Router)

- TypeScript
- Tailwind CSS
- shadcn/ui
- Recharts (data visualization)

Backend

- Node.js (via Next.js API routes or separate service)
- Prisma ORM
- PostgreSQL

AI & Data Services

- YouTube Data API
 - YouTube Transcript API
 - Gemini API (free tier)
 - Exa AI or similar search-based retrieval
 - Yahoo Finance / NSE data (fallback)
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9. Functional Requirements

9.1 Creator Management

- Store creator metadata
- Map YouTube channel to creator profile
- Aggregate scores per creator

9.2 Video Ingestion

- Fetch videos from YouTube channels
- Filter finance/market-related videos
- Store metadata (title, URL, publish date)

9.3 Transcript Processing

- Fetch full video transcript
- Segment transcript by timestamps
- Store transcript blocks

9.4 Prediction Extraction

- Identify prediction statements using AI
- Extract:
 - Claim
 - Asset / market

- Time horizon
- Confidence level (if mentioned)

9.5 Outcome Evaluation

- Fetch real market data after prediction horizon
- Compare predicted vs actual outcomes
- Generate natural-language explanation

9.6 Scoring System

- Assign numerical accuracy scores
- Aggregate per video and creator

9.7 Frontend Display

- Public leaderboard
 - Creator detail pages
 - Prediction-level breakdown
-

10. Database Design (Prisma)

Creator Table

```
model Creator {
  id      String @id @default(uuid())
  name    String
  youtubeHandle String
  channelId String
  avatarUrl String
  createdAt DateTime @default(now())

  videos   Video[]
  score    CreatorScore?
}
```

Video Table

```
model Video {
  id      String @id
  creatorId String
  title   String
  url     String
  publishedAt DateTime
```

```
    predictions Prediction[]
}
```

Prediction Table

```
model Prediction {
    id      String @id @default(uuid())
    videoId String
    timestamp Int
    transcriptText String

    predictedClaim String
    predictionType String
    horizonMonths Int

    outcome     Outcome?
    score       Float?
}
```

Outcome Table

```
model Outcome {
    id      String @id @default(uuid())
    predictionId String

    actualOutcome String
    supportingData String
    evaluation String
    accuracyScore Float
}
```

CreatorScore Table

```
model CreatorScore {
    creatorId String @id
    overallScore Float
    totalEvaluated Int
    lastUpdated DateTime
}
```

11. AI Processing Pipeline

Step 1: Prediction Extraction (Gemini)

Input:

- Transcript segment

Output:

```
{  
  "claim": "NIFTY will fall 15% in 2023",  
  "asset": "NIFTY50",  
  "horizon_months": 12,  
  "confidence": "high"  
}
```

Step 2: Market Outcome Retrieval

- Search historical market performance
 - Store:
 - Price movement
 - Time period
 - Key events
-

Step 3: Prediction Evaluation (Gemini)

Evaluation Prompt:

- Compare claim vs reality
 - Generate explanation
 - Score accuracy between **0.0 – 1.0**
-

12. Scoring Methodology

Prediction-Level Score

Factors:

- Direction correctness
- Magnitude closeness
- Time horizon match

- Clarity of prediction

Example:

- Direction correct
- Magnitude partially correct
- Horizon correct

Final Score: **0.70**

Creator-Level Score

Weighted average of:

- Prediction accuracy
 - Confidence
 - Time horizon
 - Recency
-

13. Frontend Pages

/leaderboard

- Rank
- Creator name
- Overall accuracy %
- Total predictions evaluated

/creator/[slug]

- Creator profile
- Accuracy trend chart
- List of predictions:
 - Video link
 - Timestamp
 - Prediction
 - Outcome
 - Score

/methodology

- Explanation of system
- Scoring logic

- AI limitations
-

14. Cron Jobs & Automation

- Daily video ingestion
 - Weekly prediction extraction
 - Monthly re-evaluation for long horizons
 - Score recalculation
-

15. Legal & Ethical Considerations

Mandatory Disclaimers

- Not investment advice
- Retrospective analysis only
- AI-generated evaluations

Ethical Rules

- No mocking or defamatory language
 - Evidence-backed explanations only
 - Transparent methodology
-

16. MVP Scope

Phase 1

- 3 creators
- 2022–2024 videos
- Manual data verification

Phase 2

- Fully automated pipeline
 - Public launch
 - Community feedback
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17. Future Enhancements

- Stock-level accuracy
 - Bull vs Bear bias score
 - Confidence vs accuracy visualization
 - Creator verification & response feature
-

18. Conclusion

This project introduces **accountability and transparency** into Indian finance content using **AI + data + objective scoring**.

It empowers users to judge credibility based on **history, not hype**.
