



# Finfluencer Accuracy Leaderboard (India)

## Project Documentation

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### 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.

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### 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.

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## 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**.

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## 4. Target Audience

### Primary Users

- Retail investors
- Finance learners
- Analysts and researchers

### Secondary Users

- Finfluencers themselves
  - Journalists and media
  - Fintech communities
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## 5. Initial Creator Scope

Examples of creators to include initially:

- **Akshat Shrivastava**
- **Ankur Warikoo**
- **CA Rachana Ranade**
- Pranjali Kamra
- Asset Yogi

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

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## 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**.

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## 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

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## 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

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# 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?  
}
```

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## Video Table

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

```
predictions Prediction[]  
}
```

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## 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?  
}
```

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## Outcome Table

```
model Outcome {  
  id          String  @id @default(uuid())  
  predictionId String  
  
  actualOutcome String  
  supportingData String  
  evaluation     String  
  accuracyScore Float  
}
```

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## CreatorScore Table

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

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## 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"  
}
```

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### 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**
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## 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**

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## 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
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## 14. Cron Jobs & Automation

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

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