

# Project Goals: AI-Powered Joke Generation (LLM-Based)

## 1. Project Objective

This project aims to develop a **Large Language Model (LLM)** that autonomously generates **short, humorous jokes (fıkralar)** in Turkish, tailored to Turkish cultural humor. The model should create **original, engaging, and contextually appropriate** jokes, ensuring they align with ethical and cultural norms.

## 2. AI-Generated Humor: Approach & Framework

Since the jokes will be generated by an AI model, we must define:

- The types of humor the model should produce
- The guidelines to prevent inappropriate or low-quality jokes
- The mechanisms for improving joke quality over time

### 2.1. Humor Types and Categories

The LLM will be trained/fine-tuned to generate various **styles of humor**, including:

#### ✅ Wordplay & Puns:

Using Turkish language structure, idioms, and double meanings.

*Example: "Telefonumun şarjı bitti diye üzülüüyordum... Meğer zaten pek konuşmuyormuşuz."*

#### ✅ Irony & Everyday Humor:

Highlighting relatable situations in an exaggerated yet humorous way.

*Example: "Bugün spor yapmaya karar verdim ama halıyı süpürürken yorulunca vazgeçtim."*

### ✓ Absurd & Surreal Humor:

Creating unexpected, funny scenarios that wouldn't happen in real life.

*Example: "İnternette 'Kolay Zayıflama Yöntemleri' ararken internet yavaşladı... Acaba evren bana bir şey mi söylüyor?"*

### ✓ Youth & Internet Culture-Based Jokes:

Relatable to social media users, referencing trends or tech culture.

*Example: "Telefonumun pili %1'e düştü, o da benimle birlikte dua etmeye başladı."*

### ✓ Short Anecdotal Jokes (Fıkra-style):

The LLM will create **short-form fıkralar** instead of traditional long narratives.

*Example: "Temel dükkâna girer: 'Abi, şemsiyeniz var mı?' Satıcı: 'Var ama su geçirir.' Temel: 'İyi, zaten yağmurda kullanmayacağım!'"*

### 🔴 What AI Should Avoid Generating:

- Sensitive or controversial topics (politics, religion, gender discrimination, violence).
- Offensive jokes targeting individuals or groups.
- Overly complex or academic jokes that require niche knowledge.

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## 3. AI Model Development & Joke Generation Process

Since the AI will generate jokes, we need a structured pipeline for:

1. **Training Data Collection** – LLM will be trained on publicly available humor datasets, Turkish joke corpora, and fine-tuned using curated fıkra (joke stories).
2. **Joke Generation & Filtering** – AI will generate raw jokes, which will be automatically filtered for **quality, appropriateness, and coherence** through rule-based algorithms.
3. **Human Feedback Loop** – A reinforcement learning system (RLHF) will refine joke quality over time by integrating human feedback.

### 3.1. Model Architecture & Tools

- **Base Model:** A pre-trained Large Language Model (e.g., GPT, Llama) fine-tuned for Turkish humor.
  - **Training Dataset:** Manually curated **Turkish jokes, fıkra, and informal conversational humor.**
  - **Post-Processing:** A filtering system to **remove inappropriate jokes and ensure linguistic accuracy.**
  - **Quality Assurance:** User feedback collection and automated sentiment analysis to detect non-funny or negative responses.
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### 4. Joke Format & Output Structure

The AI-generated jokes will follow a **short, engaging, and easily consumable** structure.

#### Example Joke Formats:

##### ✓ One-liner joke:

*“Alarmla uyandım, beş dakika daha dedim... Keşke alarm ‘tamamdır abi’ deyip gitseydi.”*

##### ✓ Question-answer joke:

*“- En sevdiğin içecek ne? - Mutluluk suyu. - O ne? - Kahve.”*

##### ✓ Short anecdotal joke (Mini-Fıkra):

*“Temel hastaneye gider: ‘Doktor bey, uykusuzluk çekiyorum.’ Doktor: ‘Kaç saat uyuyorsun?’ Temel: ‘7 saat.’ Doktor: ‘E normal işte!’ Temel: ‘Ama derste uyuyorum, evde uyanığım!’”*

## 5. Target Audience

Since the AI will generate **public-friendly jokes**, the target audience is **broad and diverse**.

### Who is the target audience?

- **Young adults (18-30) and general adults (30-45).**
  - **Social media users looking for quick humor.**
  - **Anyone interested in everyday jokes (fıkralar) and Turkish humor.**
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## 6. Ethical Considerations & Quality Control

Since humor is **subjective and culturally sensitive**, AI must be **monitored and adjusted** to avoid inappropriate or non-funny jokes.

### 6.1. AI Safety & Bias Handling

- ◆ **Harmful content filtering:** All AI-generated jokes will pass through **profanity & bias filters** to prevent offensive jokes.
- ◆ **User moderation tools:** Users should be able to **report inappropriate jokes**, helping the AI **improve over time**.
- ◆ **Cultural sensitivity adjustments:** AI will be fine-tuned with **Turkish cultural humor norms**, avoiding controversial topics.

## 6.2. Ensuring Joke Quality

- ◆ **Automated Fun-Score Algorithm:** AI will self-evaluate its joke output by analyzing past **user engagement & sentiment responses**.
- ◆ **Diversity in Joke Structure:** The model will be encouraged to **generate various joke formats**, preventing repetition.
- ◆ **A/B Testing for Humor Effectiveness:** Multiple joke variations will be tested to determine which style resonates best with users.

## 7. Expected Outcomes

This project aims to create an **AI-powered joke generation system** that provides **original, funny, and shareable** Turkish humor. The AI will be continuously optimized based on user engagement and laughter ratings.

### 🎯 Success Criteria:

- ✅ The jokes should **feel natural, funny, and contextually appropriate**.
- ✅ They should be **easily shareable and consumable in a digital format**.
- ✅ The AI should **avoid offensive or low-quality jokes**.
- ✅ Continuous **feedback loops should refine joke quality over time**.

## 8. Next Steps & Implementation Plan

Phase	Key Actions	Timeline
<b>Data Collection &amp; Model Training</b>	Gather Turkish joke datasets, fine-tune AI model	2-4 weeks
<b>Prototype Development</b>	Implement joke generation pipeline	3 weeks
<b>User Testing &amp; Feedback</b>	Collect real-world reactions, refine AI filters	4 weeks
<b>Final Deployment</b>	Launch in chatbot, app, or web interface	2 weeks

## Conclusion

This project will be an **innovative step** in Turkish AI-generated humor, producing **unique, fun, and culturally relevant jokes**. Our goal is to **bring daily laughter to users** while ensuring AI-generated content remains ethical, inclusive, and high quality.

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