



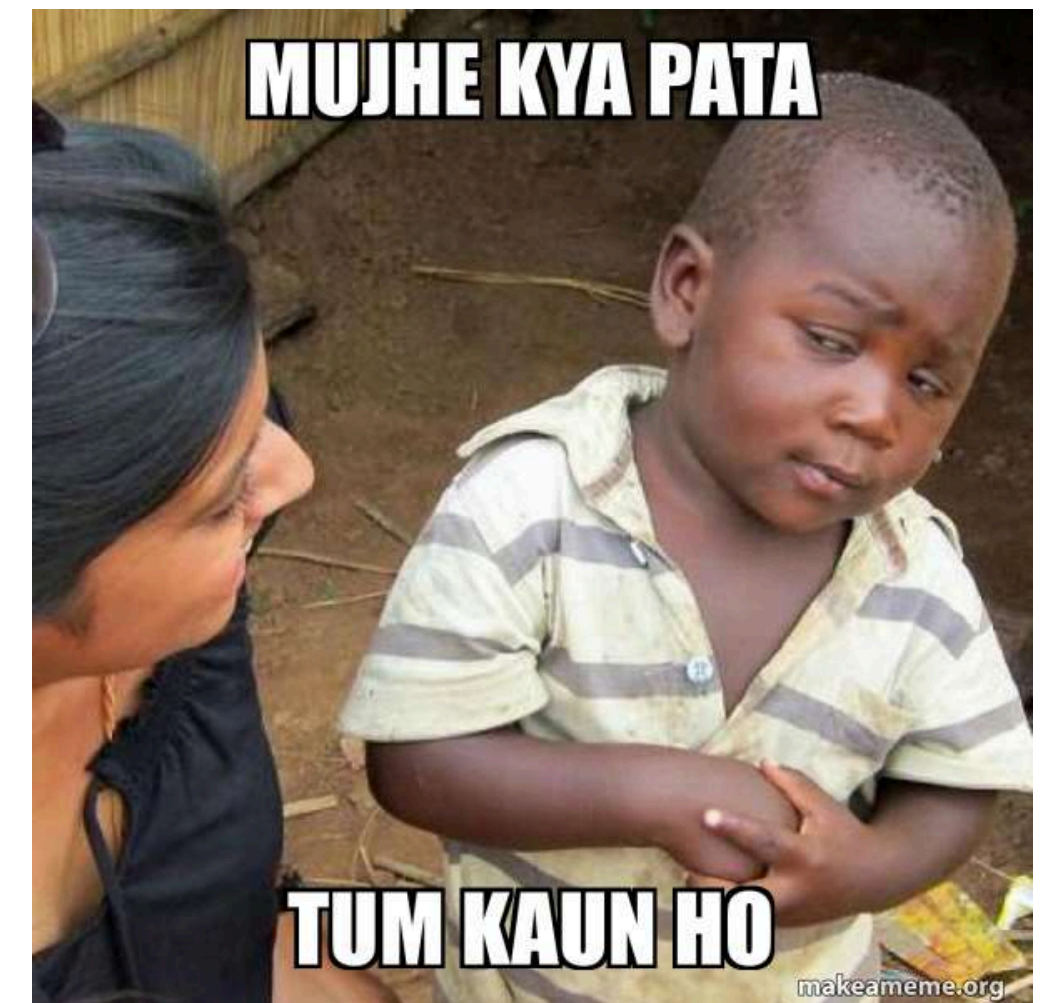
# Debajit Mallick

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Organizer @GDG Siliguri**



# who am I?

- 32+ talks on topics like Web Performance, Frontend, Firebase and many more.
- LinkedIn 2024 Top Voice for Web Development.
- Mentor and Judge of Hack4Bengal 3.0 and 2.0 Hackathon.
- Mentor of team OrganiCod3rs, the Winner of Smart India Hackathon 2022, Software Edition.
- Mentor of GirlScript Summer of Code 2023.
- Member of Team Delenitors, Smart India Hackathon 2020 Winner, Software Edition.
- Top Contributor of GirlScript Winter of Code 2021.





**CHALIYE  
SHURU  
KARTE HAI**





# Topic

**Beyond Chatbots: Building AI Travel Agent  
with Genkit**



# Topics

- What is Gemini?
- What is Genkit?
- Core concepts of Genkit
- Live Demo
- Memes







# What is Gemini?

Gemini is a family of powerful, multimodal AI models created by Google and a generative AI chatbot developed by Google



# What is Genkit?

Genkit is an open-source framework developed by Google for building AI-powered applications.





# Core Concepts of Genkit

1. Flows: The fundamental building block (like a serverless function for AI).
2. Models: Calling Gemini (Ex: gemini-2.5-flash) with structured output (Zod).
3. Tools: Connecting Gemini to external functions/APIs.





# Why you should use Genkit?

- **Model and database flexibility:** Genkit's plugin system allows it to connect to a wide range of AI models (like Google's Gemini, OpenAI's GPT, and others)
- **Developer-first toolkit:** It includes tools for testing, debugging, and monitoring AI applications, such as a developer UI that visualizes flows, traces, and model calls.
- **Integrated observability:** The framework offers built-in observability features, logging, and integrates with OpenTelemetry for broader monitoring.
- **Production-ready:** Genkit is built to create production-grade applications, with features for monitoring and deployment, and supports creating REST APIs from AI flows.



# Steps to Build a Travel Agent

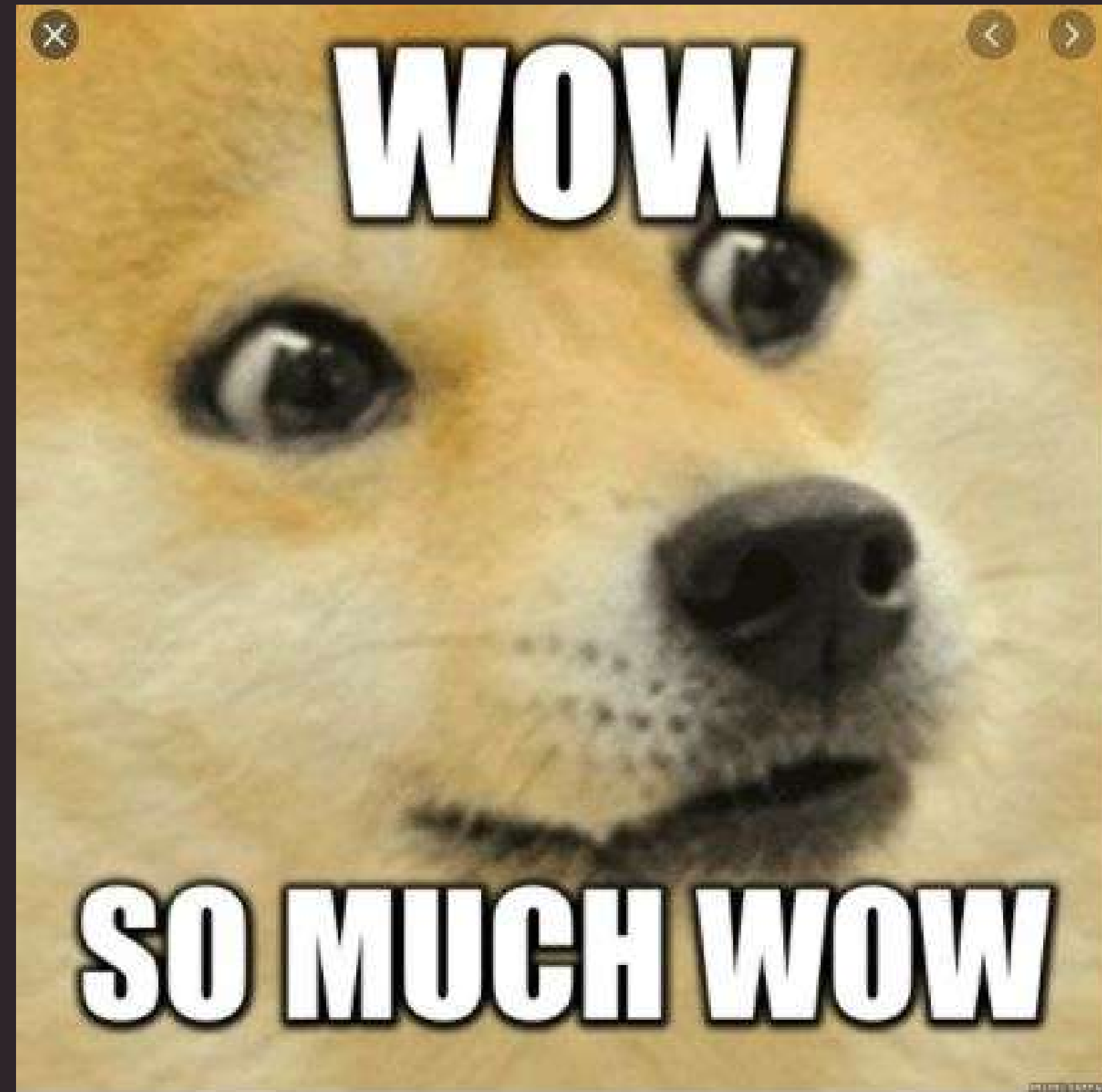
- Set up a Node.js project with TypeScript.
- Install Genkit and all the dependencies.
- Create your API key from Google AI Studio.
- Create weather API key to create the weather tool from here:  
<https://www.weatherapi.com/>
- Now in Code Implementation, there are 3 core concepts:  
Configuration, Tool Calling and Main Flow with Structured Output.
- Run the project and go to Genkit UI to run and visualise the flows.





# Live Demo









# Thank You



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