

Raj Kapadia

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Professional Summary

Team Lead (AI & ML) with **6+ years of experience** in **Google Dialogflow**, **chatbot development**, **AI agents**, and **backend development**. Extensive expertise in **LLM fine-tuning**, **API development (Python+Flask, NodeJS+Express)**, and **cloud deployment (GCP, AWS)**. Successfully led multiple AI-driven projects, optimizing **NLP**, **search engines**, and **voice-based authentication systems**.

Skills

Large Language Models (LLMs)

- Fine-tuning, inference, application development

AI/ML/DL

- TensorFlow, PyTorch, Image Classification, Object Detection, NLP

Backend & API Development

- Python+Flask, NodeJS+Express (JavaScript/TypeScript)

Cloud Platforms

- GCP, AWS

Chatbot Development

- Google Dialogflow ES/CX
 - Openai Assistant, LLM Agents, LLM Workflows
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Work Experience

Let's Enkindle | *Team Lead AI & ML*

📅 Sep 2023 - Present

- Led the development of **AI/ML SaaS products**, focusing on **LLM-based chatbot solutions** using **Google Dialogflow ES/CX**. Managed a team of 5 developers, delivering **scalable AI-driven applications**.
 - **Designed and implemented an LLM-powered Text-to-SQL chatbot** integrated with WhatsApp, enabling **real-time SQL database interactions in natural language**, reducing **manual query execution by 75%**.
 - **Built an automated pipeline for fine-tuning and deploying LLMs**, optimizing inference time by **X%** for production AI applications. Used **PyTorch, TensorFlow, and GCP**.
 - Developed an **image similarity search engine** for a tile manufacturer, using **vector databases and TensorFlow-based embeddings**, reducing search time from typically **1 day to 10 seconds**.
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The Other Fruit/Nes Tech Ltd | *Lead AI & ML Developer*

📅 Jan 2022 - Aug 2023

- Led a team of **3 developers**, building AI/ML solutions for clients in **image recognition, NLP, and biometric authentication**.
 - **Developed an image similarity search engine**, enabling users to find visually similar images via **Python, TensorFlow, OpenCV, and Elasticsearch**, reducing manual searches by **75%**.
 - Built a **face recognition-based biometric authentication system** using **dlib** and **Python+Flask API**, improving authentication speed by **85%**.
 - Created a **voice authentication system** (Voice as a Password) using **Python, Elastic, and Flask APIs**, enhancing **security with 2FA voice verification**.
 - Developed a **toxic comment classifier** using **Python, PyTorch, and NLP models**, improving **content moderation for a social media platform**.
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Government Engineering College, Modasa | *Assistant Professor*

📅 Aug 2016 – Jan 2022

- Taught **Electrical Engineering subjects**, integrating **MATLAB and C programming for microcontrollers**.
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Freelance / Fiverr / Upwork

- Built **100+ Google Dialogflow ES/CX chatbots** for various clients using **NodeJS and Python** as backends.
- Developed **AI Agents using LLMs**, automating **complex decision-making processes** for businesses.
- Created an **end-to-end Object Detection solution**, including **model training, evaluation, and deployment using TensorFlow and Flask**.

Education

🎓 **Master of Engineering (Power Systems)**
Sankalchand Patel College of Engineering, Gujarat (2011-2013)
CPI: 8.3

🎓 **Bachelor of Engineering (Electrical Engineering)**
Global Institute of Technology, Jaipur (2006-2009)
Percentage: 67%

Projects & Additional Work

- **YouTube Channel:** Uploads videos on **Google Dialogflow, Machine Learning, NLP, AI, and Large Language Models (LLMs)**. [Visit YouTube Channel](#)
 - **Portfolio & Blog:** [Visit Portfolio](#)
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Keywords for ATS Optimization

Google Dialogflow, Chatbot Development, AI Agents, Backend Development, Python, Flask, NodeJS, Express, TensorFlow, PyTorch, NLP, LLM Fine-Tuning, API Development, Google Cloud, AWS, Elasticsearch, OpenCV, Face Recognition, Voice Authentication