

# Vivek Gohel

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## PROFESSIONAL SUMMARY

I am a skilled Machine Learning Engineer with 3 years of experience in ML, Data Science, Deep Learning (DL), Generative-AI, Natural Language Processing (NLP), and AWS. I have successfully built and integrated ML-DL and Generative-AI pipelines into existing products using technologies like Flask, Fast-API and AWS. Adept at researching, developing, and optimizing ML-DL algorithms while streamlining development processes.

## TECHNICAL SKILLS

**Generative-AI || AWS || RAG || NL2SQL || Text to Image Generation || Deep Learning || Machine Learning || NLP || Computer Vision || Python || NumPy || Pandas || Sklearn || OpenCV || Pillow || Seaborn || Matplotlib || TensorFlow || Keras || Flask || Django || REST API || FastAPI || PostgreSQL || MySQL || Git || Bitbucket || GCP**

## EXPERIENCE

**Self-employed – Remote | May'24 – Current**

### **AI-ML Engineer**

- I am delivering several innovative projects, including the development of RAG-based chatbots using AWS architecture (Claude, Haiku, 3-Sonnet from Bedrock, ECS, ECR, EC2, RDS, Lambda) and sometime openAI api also for more interactive and intelligent customer interactions. In the realm of sports, I am working on predictive modeling to offer insights and forecasts that enhance decision-making. Additionally, I am leveraging Gen-AI for summary generation, which distills complex information into concise, actionable insights. One of my standout projects involves transforming standard pitches into dynamic AI-driven presentations using advanced lip-sync technology, ensuring more engaging and impactful communications. Furthermore, I utilize ElevenLabs for high-quality voice generation, adding a professional and human touch to AI-generated content. Through these initiatives, I am committed to not only meeting but exceeding client expectations by integrating the latest advancements in AI to deliver superior and tailored solutions.

**SStech System – Ahmedabad | May'23 – May'24**

### **Senior AI-ML Engineer**

- Worked on image preprocessing for enhancement, including background removal and resizing images to various dimensions such as 1024x1024, 1000x1000, 2250x300, etc for compatibility across different devices.
- Built a comprehensive end-to-end pipeline to handle the enhancement of thousands of e-commerce products. This pipeline includes generating descriptions, titles, bullet points, and secondary titles from product images. Additionally, developed a chatbot that answers queries related to any client product.

**Technomark – Ahmedabad | Feb'23 – May'23**

### **Senior AI-ML Engineer**

- Worked on image pre-processing for image enhancement before doing OCR, Building interactive chatbot for accountant products, using gpt-3.5 openai API.
- Also, I have implemented many NLP-based solutions, such as extracting useful information from invoices and detecting areas where clients want to extract information. I have built end-to-end systems for the client.

**SN DK CORP. – Ahmedabad | Dec'21 - Jan'23**

## **Machine Learning Engineer**

- Working on end-to-end projects like building a search engine for food items, sentiment analysis of the people's chat and flag that if negative, Inventory management of food items, and mail organization

### **UPWORK | Jan'21 - Dec'21**

## **Machine Learning Freelancer**

- Worked on summary relevancy detection in which I was given a dataset of summaries and keywords, in which I have to detect whether these keywords are relevant or not.
- Solved the bug the client was facing in the Time series Analysis model to detect whether a person is healthy or not.
- Developed a Gujarati Fake News Detection, in which I collected the Gujarati news data and filtered the data, and then pass to machine learning models after converting it into vectors and then created the flask application of the same.

### **HOPS Healthcare – Ahmedabad**

## **Machine Learning Intern | May'21 - Jul'21**

- Worked on computer vision based Dermatology detection project, in this I have worked mainly on feature extraction using vgg from image, balancing the dataset, model building for classification of disease, REST API using flask python framework and deployment on company server

## **Machine Learning Engineer | Jul'21 - Nov'21**

- Worked on a computer vision-based X-ray tuberculosis detection project, in this I have built an end-to-end pipeline from data collection to making rest-API and deploying on company server.

## **EDUCATION**

### **Bachelor of Engineering | Electrical Engineering**

**Vishwakarma Government Engineering College, Ahmedabad, Gujarat | 2017 – 2021**

### **Grad. High School**

**BAPS Gurukul, Gondal | 2015-2017**

## **ACCOMPLISHMENTS**

### **Kaggle – Kaggle Competition Master**

- Participated in many competitions like of tabular data, NLP and, Computer Vision.
- Got expert tag after winning silver in tabular data base competition and bronze in NLP base competition.

### **HackerRank**

- 5 Star in Problem Solving using Python Language