

RITESH PATIL

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Experience

AI/ML Intern – OnPoint Software Services

Jul 2025 – Present

- Built **multi-agent chatbots** using LangGraph, Gemini API, and pgvector for lead intake and project requirement extraction with lead generation stored in Google Sheets.
- Built Vital Voice - **AI voice-to-voice** gym and dietician assistant with LiveKit, Google Gemini, and LangGraph for real-time personalized fitness and nutrition coaching.

Skill Set

Programming Languages: Python, SQL

Generative AI & LLMs: LangChain, Google Gemini, Hugging Face, LangGraph, RAG (PGVector), Pydantic

Machine Learning & Deep Learning: Scikit-learn, TensorFlow, Keras

Data Analysis & Visualization: Pandas, NumPy, Matplotlib, Power BI, Excel

Development & Deployment: Flask, Django, Streamlit, FastAPI, Docker, Git, MLflow, DVC

Databases & Vector Stores: MySQL, PostgreSQL, MongoDB, PGVector

Tools & Platforms: Jupyter Notebooks, Google Colab, Postman, Google Sheets API

Projects

Vital Voice - AI Voice Gym & Dietician Coach:

Developed a **low-latency AI voice-to-voice** assistant providing **real-time** gym training and nutrition guidance through natural conversations. Features **multi-agent** orchestration with specialized gym trainer and dietician agents for personalized coaching.

Tech: FastAPI, LiveKit, Google Gemini, LangGraph, PostgreSQL

Scribble.io - Air Canvas Math Solver: [\[Repo Link\]](#)

Built a tool using **Django** and **OpenCV** that lets users draw math problems in the air using hand gestures. The system recognizes and solves equations in real-time using AI.

Tech: Django, OpenCV, Cvzone, Google Gemini

AI-based Advanced Proctoring System using YOLO and R-CNN:

Designed an AI system to enhance the integrity of online assessments by using YOLO and R-CNN algorithms for real-time detection of suspicious behaviour, ensuring comprehensive monitoring of test environments.

Tech: Object Detection, Deep Learning, YOLO, R-CNN

Certification

- [Oracle Cloud Infrastructure 2024 Generative AI Certified Professional](#)
- [Oracle Cloud Infrastructure 2023 AI Certified Foundations Associate](#)
- [Machine Learning Fundamentals Micro-Credential Issued by Alteryx](#)

Academic

Bharati Vidyapeeth College of Engineering | Bachelor of Technology

Major in Computer Science & Engineering; Specialization in **AI-ML**.

(2021-2025)

CGPA 8.57/10