

# RITESH PATIL

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## Academic

**Bharati Vidyapeeth College of Engineering** | Bachelor of Technology  
Major in Computer Science; Specialization in AI-ML.

(2021-2025)  
**CGPA 8.57/10**

## 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.
- Developed PDF-based and voice-enabled chatbots (FastAPI, Whisper, FastRTC) with lead generation stored in **Google Sheets**.

## 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

## 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](#)
- Python for data science, AI and development- Issued by Coursera.

## Projects

**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

**Auto README Generator from GitHub Link:** [\[Repo Link\]](#)

Created a tool that auto-generates README.md files by analyzing GitHub repos using AI and web scraping. Deployed via **Streamlit Cloud**.

**Tech:** Python, Streamlit, BeautifulSoup, GitHub API, 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.

**Skills:** Object Detection, Deep Learning, YOLO, R-CNN