

## Rajesh Patel

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## OBJECTIVE

MLAI with 7+ years of experience in Machine learning, Generative AI, and MLOps, where I can leverage my technical depth and global exposure to drive innovation in multimodal systems and enterprise AI solutions.

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## SUMMARY

- 5 years in AI/ML, Deep Learning, and Research with strong focus on Generative AI and industrial applications.
  - Expert in Computer Vision, NLP, RAG architectures, **Django** and multimodal systems (image-text).
  - Generative AI projects using Llama2/3, LangChain.
  - Strong MLOps foundation: Docker, AWS SageMaker, CI/CD, scalable ML deployment.
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## EXPERIENCE

### Capgemini Pvt. Ltd. - Data scientist Capgemini (Employee Feedback Review)

*Bangalore, India • 03/2024-Present*

- Development of a in GenAI POC initiatives, utilizing LLM (Gemini, PaLM2) on GCP to generate insights from SQL databases based on user inquiries on "Good Morning Capgemini" data.
- Led a proficient team in conducting employee background verification analysis, identifying potential risks, and disseminating insights to stakeholders.
- Utilized Vector Auto Regressor model to forecast potential fouling occurrences in heat exchangers with 85% accuracy, leveraging data from Cognite platform and showcasing forecast on Power BI dashboard.
- Utilized inferential analysis and built Xgboost-based predictive models to detect patterns and forecast employee turnover, aiding proactive retention strategies.
- Utilized hierarchical clustering on Gallup Q12 survey data to identify related questions, subsequently examining impact of employee satisfaction on turnover and performance.
- Designed scalable **RAG pipelines** for contextual image- text understanding using LangChain, and ChromaDB.
- Delivered full-stack deployment via **AWS SageMaker, Docker, and PostgreSQL**.
- Automated **MLOps pipelines** for CI/CD, retraining, and model monitoring across edge-cloud infrastructure.

**Tech Stack:** Python, Pytorch, FastApi, AWS, MongoDB, GenAi,NLP,Data Science, Machine Learning.

### Mphasis Pvt. Ltd. Data scientist Cardinal Health (via Healthark Insights)

*Bangalore, India. 11/2021 - 03/2024*

- Led the development of a **GenAI-powered factory maintenance platform**, showcased at **MWC 2025**, integrating multimodal inputs and real-time edge deployment.
- Designed scalable **RAG pipelines** for contextual image- text understanding using LLaMA2/3, Llava1.6, DINOv2, LangChain, and ChromaDB.
- Delivered full-stack deployment via **AWS SageMaker, Docker, and PostgreSQL**; integrated with **ServiceNow** and **SharePoint**.
- Built **real-time computer vision systems** achieving **<100ms inference**, enhancing defect detection in manufacturing environments.
- Automated **MLOps pipelines** for CI/CD, retraining, and model monitoring across edge-cloud infrastructure.

**Tech Stack:** Python, FastApi, AWS, Postgres, Data Science, PySpark, MLOps, Machine Learning.

## **Nixsol Pvt. Ltd. - Data scientist   MaxLife (Predict Insurance Charges)**

***Bangalore, India • 01/2021 - 04/2021***

- Created a predictive analytics system using MLflow within an MLOps framework to achieve 93% accuracy in forecasting customer satisfaction.
- Streamlined pipeline management and deployed models efficiently.
- providing actionable insights that improved business decision-making and customer retention strategies.

**Tech Stack:** Python,DL,NLP, MLOps, Machine Learning

## **Tech Mahindra Pvt. Ltd. - Data scientist Jio (Jio Voice)**

***Bangalore, India • 01/2018 - 08/2020***

- **Analyzed large amounts of application maintenance data (for clients as well as contract RFP) across industries to identify trends and find patterns, signals and hidden stories within data.**
- **Leveraged text, charts and graphs to communicate findings in Power point presentation or tableau dashboard.**
- **Identified potential automation opportunities by implementing targeted automation strategies and refining existing processes.**
- **Projected significant cost savings for over 20 clients through optimized resource utilization, process enhancements, and identified automation opportunities contributing to improved efficiency and overall performance.**

**Tech Stack:** Python, ML , numpy, pandas, seaborn, matplotlib

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## **EDUCATION**

**RGPV University of Technology**

**Bhopal, India • 2013**

***Bachelor of Technology: computer science and engineering***

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## **TECHNICAL SKILLS**

- **AI & ML:** Generative AI, Deep Learning, Computer Vision, NLP, RAG, Neural Networks
- **Frameworks:** TensorFlow, PyTorch, Hugging Face, LangChain, Scikit-learn
- **Computer Vision:** OpenCV, CNNs, YOLO, image-text fusion
- **MLOps & Infra:** AWS SageMaker, Docker, CI/CD, PostgreSQL
- **Languages:** Python, SQL,

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## **Personal Details**

**Location:** Bangalore

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