

# Rohit Kadam

Pune, India • [rohitkadam1410@gmail.com](mailto:rohitkadam1410@gmail.com) • +91 7767880235 • [linkedin.com/in/rohitkadam315](https://linkedin.com/in/rohitkadam315)

Passionate Data Science researcher with 4+ years of experience developing AI ML and GenAI-powered solutions in health tech and regulatory intelligence, including hands-on experience with GPT-4o, Lang Chain, and Building LLM applications. Granted patent holder, published author, and PharmaSUG presenter. Actively exploring the intersection of AI and life sciences through academic and industry-led innovation.

## PROFESSIONAL EXPERIENCE

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### TATA CONSULTANCY SERVICES

Pune, India

#### I.T. Analyst

Jan 2024 – Present

- Led the development of a GenAI-based medical assistant using Azure OpenAI which improved monitoring process efficiency.
- Directed a team of 4 in building modular LLM Applications using RAG- for literature management system.
- Acted as the primary point of contact for stakeholders during the pilot phase, streamlining solution rollouts.
- Conducted cross-team brainstorming sessions and stakeholder interviews to define business use cases in HealthTech.

#### System Engineer

Jul 2021 – Dec 2023

- Developed the Regulatory Intelligence Chatbot project using RASA and custom NLP, reducing query response time for regulatory professionals
- Collaborated with SMEs and business leads to design AI-driven healthcare pilots.
- Served as Innovation Lead during the Incubation Bootcamp, resulting in the award-winning product idea
- Mentored three junior interns in Python, NLP, and AI ML fundamentals and developing POC solutions.
- Initiated a knowledge-sharing forum within the R&I team to accelerate GenAI adoption across verticals.

#### Assistant System Engineer

Sep 2020 – Jun 2021

- Contributed to data analysis and dashboard creation using Python for EHR Analytics.
- Supported early experiments with NLP for medical writing applications.
- Worked as an individual contributor in POC development to streamline EHR data to EDC

## Projects

- GenAI Based medical monitoring assistant:
  - Developed an intelligent assistant using Azure OpenAI to support real time medical monitoring and decision making in clinical trials.
  - API driven architecture to support medical monitoring queries and provide actionable insights
- Literature insights Platform:
  - Designed literature search and analysis platform to extract key insights from medical literature and support ICSR detection
  - Using customized search, information retrieval and LLM based ICSR detection strategy automatic categorization of article into distinct groups.

## TECHNICAL SKILLS

Python, Data Science, Machine Learning, NLP, Generative AI, RAG, Azure, OpenAI, REST APIs, AWS (Bedrock), RASA, Docker, Kubernetes, Airflow, TensorFlow, PyTorch, Keras

## EDUCATION

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### Rajarambapu Institute of Technology, Shivaji University

Sangli, India

Bachelor of Technology (Mechanical Engineering): 7.62 CGPI

Jul 2014 – May 2018

### Yashawantrao Chavan Institute of Science, Satara

Satara, India

Higher Secondary (H.S.C): 81.38 %

Jun 2012- May 2014

### Maharaja Sayajirao Vidyalaya, Satara

Satara, India

Secondary School (S.S.C): 93.64 %

Jun 2011- May 2012

## CONFERENCES AND PRESENTATIONS

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### PharmaSUG 2025

San Diego, USA

The paper discussed how Generative AI can strategically streamline signal detection, safety reviews, and evidence gathering by mining unstructured scientific and medical literature — driving faster, more informed clinical decisions. ([Paper Link](#))

### PharmaSUG 2024

Baltimore, USA

Presented a paper on how large language models (LLMs) coupled with next-generation Graph database, search and analytic engines etc. can create a comprehensive AI-based technology automation platform. ([Paper Link](#))

## PATENTS

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•**Granted:** Automated Continuous Validation for Regulatory Compliance (2023)

- Proposed an automated approach for validating computer systems with dynamic components using synthetic UAT and learning saturation testing: [Patent Link](#)

•**Filed:** Automated Clinical Event and Endpoint Adjudication System (2024)

## PUBLICATIONS

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- The Future of Regulatory Intelligence with Conversational AI (2022) – Discusses chatbot-driven access to regulatory knowledge.
- AI/ML Approaches to Assisted Medical Writing – Part 1 & 2 (2021–2022) – Covers abstractive vs. extractive summarization methods.
- Future of Clinical Trial Documentation Management using Blockchain (2021) – Examines eTMF digitization and audit compliance.