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Passionate GenAI Engineer with 4+ years of experience managing full lifecycle AI/ML and GenAI projects, specializing in Python, LLM, and health tech solutions. Granted patent holder, published author, and PharmaSUG presenter. Actively exploring the intersection of AI and life sciences through academic and industry-led innovation, with a focus on deploying AI models using Docker & Kubernetes.

PROFESSIONALEXPERIENCE

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, TensorFlow, PyTorch, Keras, Airflow

EDUCATION

Rajarambapu Institute of Technology, Shivaji University **Sangli, India**

Bachelor of Technology (Mechanical Engineering): 7.62 CGPI **Yashawantrao Chavan Institute of Science, Satara** Higher Secondary (H.S.C): 81.38 %

Jul 2014 – May 2018 **Satara, India** Jun 2012- May 2014

Maharaja Sayajirao Vidyalaya, Satara **Satara, India**

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

Jun 2011- May 2012

CONFERENCES AND PRESENTATIONS

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

- **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

- 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.