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Experienced Data Scientist with over 4 years in developing scalable ML and Generative AI solutions, specializing in LLM Application Frameworks and Prompt Engineering. Granted patent holder, published author, and PharmaSUG presenter with expertise in integrating AI/LLM Models into Applications/APIs. Actively exploring the intersection of AI and life sciences through academic and industry-led innovation.

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 architecting modular LLM Applications using RAG APIs, improving literature
- 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

Programming Languages: Python
AI/ML Tools: Data Science, Machine Learning, NLP, Generative AI, LLM Fine Tuning, Prompt Engineering
Cloud Platforms: Azure, AWS (Bedrock)
APIs: REST APIs, RAG
Frameworks: OpenAI, RASA

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.