

INTERNSHIP REPORT

*Gen-AI-Enabled Real-Time Query Resolution for Better Patient Engagement and amplified Clinical Operation*

Presented By –

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Guided By –

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Company Name – LTIMindtree Limited

Internship period – 3rd July – 31st August

During the 2-month internship at LTIMindtree Ltd, a leading technology company. As a pharmaceutical science student my primary objective was to apply my background in a novel field: using generative AI. During my internship at LTImindtree Ltd, I worked on Project entittled *Gen-AI-Enabled Real-Time Query Resolution for Better Patient Engagement and amplified Clinical Operation.*

My primary objective was to bridge the gap between pharmaceutical knowledge and IT expertise. My focus was on understanding how generative AI models could be utilized in clinical trial operations to improve interactions and query resolution (trial methodology, Inclusion/ Exclusion. Drug regimen, trial visits) for better patient engagement. The focus was on developing a system that would streamline the resolution of clinical queries in real time.

 Throughout the internship, I actively participated in:

* Studying the basics of generative AI and its applications.
* Collaborating with the team to identify potential use cases for AI-powered Q&A systems.
* Assisting in the preprocessing of text data for training the AI model.

One of the notable achievements during my internship was developing a prototype Q&A system that used a generative AI model to provide detailed responses to queries of Principle Investigator, Study Coordinator, Clinical Research Associate (CRA)​. The model successfully generated accurate and contextually relevant answers, demonstrating the potential of AI in supporting healthcare information dissemination.

This internship has broadened my horizons by allowing me to bridge my pharmaceutical background with cutting-edge AI technologies. I've gained a newfound appreciation for the synergy between different fields and how AI can be harnessed to address real-world challenges. This internship highlighted the immense potential for IT solutions to enhance efficiency in the pharmaceutical domain.

My internship experience at LTIMindtree Ltd has been invaluable. It showcased the potential of applying generative AI techniques in non-traditional domains like pharmaceuticals. I'm immensely grateful for the opportunity to contribute to innovative projects and enhance my skill set in a dynamic environment.

I would like to thank Mr. Sidharth Joshi and Mr. Sachin Dighe for the support and guidance during the internship.

- Prerana Nitin Bhosale.