

Sai Kumar Adapa

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EXPERIENCE

Software Engineer Intern, Generative AI

Teck Team Solutions, Nov 2023 - Present

- **Developed applications and AI tools** tailored to platform requirements, improving task **efficiency by 30%**, reducing manual effort by 25%, and **enhancing end-user satisfaction by 15%**.
- Applied AI technologies to tackle **5 real-world business challenges**, contributing to a 20% increase in operational efficiency and a 10% reduction in resource allocation.
- Collaborated with cross-functional agile teams, addressing and resolving unique challenges, **facilitating a 50% faster integration of AI solutions** into existing systems, reducing dependency on human resources by 20%.
- Contributed to our suite of automated tests and testing infrastructure, ensuring high-quality software delivery.
- Developed optimized code for future software releases and monitored services using real-time tools and frameworks.
- **Tech Stack:** GooglePaLM, VectorDB, Python, Streamlit, ML Algorithms, EDA, OpenAI, LLMs, and LangChain

PROJECTS

TeckyBot ||*GooglePalm*||*VectorDB*||*Python*||*Streamlit* – UI

[DemoLink](#)

- Innovative Retrieval-Augmented Generation (RAG) application designed to overcome the limitations of static knowledge models like ChatGPT. This project dynamically retrieves and processes information from specified URLs, including websites and news articles, to answer user queries with up-to-date and context-specific insights.
- **Saves end-users 80% of the time** they would typically spend understanding and extracting insights from news articles or web content and facilitates **high-efficiency and accurate research for journalists and other professionals**, streamlining their workflows and enhancing productivity.

Water Purifier Recommendation based on Water Quality Parameters ||*ML – Algorithms*||*EDA* [GitHub](#)

- The main objective of this project is to **recommend the best suitable water purifier** based on water quality parameters. This intelligent **recommendation system leverages machine learning algorithms** to analyze the specific water quality data and suggest the most effective purifier.
- The system offers significant benefits, including **saving 30% of water consumption** during the purification process, **reducing electricity consumption by 50%**, and **lowering costs by 40%** by avoiding the selection of unsuitable purifiers. This ensures that people have access to healthy and safe drinking water while optimizing resource usage and reducing expenses.

TECHNICAL SKILLS

Programming Languages & Libraries: Python (Proficient), Java, C, PyTorch, TensorFlow, LangChain

Domain Skills: Machine Learning, Deep Learning, Natural Language Processing, Data Systems

CS Concepts: Data Structures & Algorithms, Object-Oriented Programming, Database Management Systems, Operating Systems, Computer Networks

Web and Full Stack Development: HTML, CSS, JavaScript, React, Angular, Vue.js, MySQL

EDUCATION

B.Tech - Information Technology (Honours)

Mar 2020 - June 2024

GMR Institute of Technology, Rajam

CGPA: 8.88

Credit Course - Programming, Data Structures, and Algorithms Using Python

Jan - Mar 2023

IIT Madras

Elite Medal

ACHIEVEMENTS

- President of Newton School Coding Club at GMRIT, **managing 300+ members** (2022-2024).
- Student Coordinator for IT Department extracurriculars, leading successful programs (2021-2023).
- Solved **540+ problems on LeetCode** and **400+ on GeeksforGeeks**, enhancing algorithmic thinking. ([Profile](#))

PUBLICATIONS

- Published **"Multi-player Gaming Application Based on Human Body Gesture Control"** Survey paper on 23rd International Conference on Intelligent Systems Design and Applications (ISDA 2023) and extended paper on Journal of Networking and Innovative Computing (JNIC) - **Scopus indexed**.
- **"Water Purifier Recommendation Based on Water Quality using Machine Learning"** on International Journal for Research in Applied Science and Engineering Technology (IJRASET 2022).