

Nikith Pinni

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Skills

- **Programming Languages:** C++, Python
- **Web Development:** HTML, CSS, JavaScript (Basics), React(Basics), Node JS(Basics), FAST API (Basics), SQL
- **AI and Data Science:** Generative AI (Experienced in Training and Deploying Fine Tuned LLM Models), RAG Pipelines, EDA/ETL, Building and Training customized ML and DL models, Tensorflow
- **Developer Tools:** Git, GitHub, Visual Studio Code, IntelliJ IDEA and MS Excel
- **Soft Skills:** Analytical Thinking, Problem Solving, Team Collaboration, Leadership Quality

Work Experience / Internships

Roche Pharma India Pvt Ltd (SWE and Data Science Intern)

Jan 2024 – Mar 2024

- Medical Data Explorer Portal: Developed an automated data collection system integrating information from multiple sources, **reducing reliance on external data vendors, resulting in cost savings of Rs. 2.4 Crore.**
- Employee Performance Review Portal: Designed and developed an optimized interface for retrieving employee performance data, significantly improving efficiency over the existing system. This enhancement **eliminated approximately 10 minutes of navigation time and increased productivity** by automating previously manual tasks.
- Cancer Care Pre-Consultation Bot: Developed a Generative AI project enabling patients to interact with a **pre-consultation bot**, providing in-depth medical information, enhancing patient experience and implemented caching mechanism.
- Email Generator Project: Developed a Generative AI and NLP solution for email generation using meeting call notes. Fine-tuned large language models (LLMs) to extract key subjects from call notes, automating email creation. This solution **saved medical representatives approximately 3 hours per day, significantly reducing manual effort and increasing efficiency.**
- Cancer Care Africa: Worked on expansion projects, **extending company's overseas reach, increasing profit margins and new opportunities.**
- **Skills Used:** HTML | CSS | JavaScript (Basics) | REACT | Flask API's | SQL | Beautiful Soup | Scrapy | PyTesseract OCR | LLM Fine tuning and deployment (Generative AI) | NLP techniques (Topic modeling, LSTM) | RAG pipeline retrieval

Projects

Material Base

Jan 2023

- **Tech Stack Used:** HTML, CSS, JavaScript, VS Code, GitHub
- One-stop platform for educational resources and textbooks, tailored for students and learners.
- Provides all kind of materials across various disciplines in an organised way.
- Responsive design for compatibility across devices, serving 10,000 users with revenue generation through advertisements.

Data Explorer

Oct 2023

- **Tech Stack Used:** HTML, CSS, JS, React JS, Flask API
- Retrieved and displayed data in a tabular format with dynamic updates
- Implemented visualizations on the UI for enhanced data representation
- Added features for searching through various filters and providing search suggestions
- Enabled sorting through dates to facilitate data analysis

Guest Ease

Oct 2023

- **Tech Stack Used:** Java Swing , JDBC , MySQL Workbench , IntelliJ IDEA IDE
- User-friendly interface developed with Java Swing for receptionists, Features for managing guest check-ins, check-outs, and reservations
- Integration with the MySQL database using JDBC for storing and retrieving guest information.
- Implemented robust error handling mechanisms for improved stability and user experience.

Task Manager

Feb 2024

- **Tech Stack Used:** HTML, CSS, JS, React JS, FAST API, MongoDB
- Implemented features for adding, checking, and deleting tasks.
- Leveraged FastAPI to create robust and high-performance backend services
- Integrated MongoDB for efficient storage and retrieval of task data

Gym Registration Website

Feb 2024

- **Tech Stack Used:** HTML, CSS, JS
- Utilized JavaScript to create interactive and dynamic registration forms
- Employed Pug for efficient and maintainable templating
- Enabled users to seamlessly provide their details and register for gym memberships

Research Papers

Enhanced Medical Waste Classification Using ML and ANN integrated with GLCM

May 2024

- Developed a research project focusing on integrating DL techniques with ML for accurate classification of biomedical and pharmaceutical waste.
- **Increased accuracy from 96% of 98%** by extracting GLCM and MobileNet V3 features as a training dataset and passing them through ML and ANN models.
- **Skills Used:** Deep Learning, Machine Learning, Artificial Neural Networks, Model Evaluation

Traditional Rice Variety Classification Enhanced Using GLRLM

June 2024

- Introduced a novel approach by integrating GLRLM (Gray Level Run Length Matrix) textural features with other essential features within a neural network. This research underscored the significant role of textural features in effectively classifying complex data points.
- Following the integration of this novel approach, the **model's accuracy demonstrated notable improvement, increasing from 96% to 98.6%**
- **Skills Used:** Deep Learning, Machine Learning, Artificial Neural Networks, Model Evaluation

Scholastic Achievements

- Web Developer at Sastra Web Development Club
- First place in Machine Learning Hackathon

Additional Courses

- Completed course on Gen AI
- Pursuing course on Full Stack Web Development

Interests

- Cricket, Badminton, Writing, Reviewing, Browsing Tech related content