SPARSH JHARIYA

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EDUCATION

Bachelor of Technology in ECE, Indian Institute of Information Technology Surat   **Dec 2020 - June 2024**

SKILLS

Languages	C++, Python, Java, JavaScript , MySQL , MongoDB , Postgres
Technologies	ReactJs, Flask, Spring Boot, ExpressJs, Tailwind, NodeJs, Git, GitHub/Git-Lab, Docker
Cloud	Google cloud , Amazon Web Services , Azure , DVC , Github actions and Workflows
	Google cloud run , Google cloud storage, Google cloud document AI , AWS S3
	Google cloud vision , Google video Intelligence , Google Cloud SQL
	Amazon Sagemaker , Mlflow , Amazon ECR , EC2 ,lambda, API Gateway , Dynamo DB
	Azure machine learning, Azure Cosmos DB , Azure Blob Storage , Semantic Kernels
Concepts	Operating System, AI , Machine Learning, Neural Networks, API, Databases, Agile, Cloud

EXPERIENCE

Associate AI/ML & Backend Developer   **Jun 2024 - Present**
Ideyalabs   *Hyderabad, India*

- Pioneered the development of cutting-edge **Generative AI** and Retrieval-Augmented Generation **(RAG)** models, resulting in a **40 percent** increase in natural language processing accuracy and reducing response time by **25 percent**.
- Using various **vision** models to incorporate fascinating features in the application.
- Currently contributing to the **Java springboot** backend of the project related to AI/ML space.
- Working on Springboot with **GenAI** integrations, **elastic search**, **Postgres** using **Microservice** architecture.

Software Developer Intern   **Dec 2023 - May 2024**
Ideyalabs   *Hyderabad, India*

- Developed a **chatbot** using **Rasa** open source framework for a health coach application.
- Engineered multiple models from scratch using advanced machine learning algorithms.

Cloud AI Intern   **May 2023 - Dec 2023**
Impulse Compute   *Bangalore, India*

- Contributed to **document processing** tasks utilizing diverse cloud technologies such as Google Cloud Vision, Document AI, and others, reducing the user wait time by **10 percent**.
- Developed and deployed a comprehensive set of **image processing** and machine learning algorithms, increasing document processing accuracy by **20 percent**.
- Utilised **generative AI** and **vision** and **LLMs** to bring new document processing features.

Frontend Developer Intern   **Dec 2022 - Jan 2023**
Futerestic   *Delhi, NCR*

- Built react front-end with tailwind and made code concise by **10 percent** by modularization of the code.
- Standardized user interface by applying Tailwind themes, improving user satisfaction scores by 35 percent ; mastered WordPress theme development with PHP, resulting in a 20 percent increase in site engagement and usability.

Full Stack Developer Intern   **May 2022 - July 2022**
Kaspertech   *Surat, Gujarat*

- Designed an ACID-based transaction management system, implementing MongoDB acid transactions to ensure the **100 percent** validity of each transaction.

PROJECTS

Organizer Service   **Patent Application No.: 202341073472**
ReactJs, Python, Google Cloud , AI/ML   *Web Application*

- **Patent Title :** A Method of analysing pages of a document and organizing the contents of the pages in an efficient manner.
- Automatically organizes pages according to the number of pages, date, background color, and context of other pages, saving users time by 95 percent.
- Informs users regarding specifics such as table of content and index pages with 90 percent accuracy.

Smart Snip Extension   **Patent Application No.: 202441017525**
Javascript, Python, Google Cloud , AI/ML   *Chrome extension*

- **Patent Title :** Rendering information for a selection in a web browser.
- Allows users to take snapshots of the Web browser; if the snapshot contains a table, it can be exported to SQL, Excel, and Word instantly.
- Correlates images or text in snaps; in the case of text, the application generates insights based on selected text on-screen, confirming correlation up to 80 percent.

HealthCoach - AI Agent
Java, Springboot, Azure, GenAI, Elastic Search, Postgres   *Mobile/Web Application*

- Designed Features like Food Scanner, Compare Food and Dream Diet from scratch.
- Worked on Food diary feature and contributed to the DB design.

ACHIEVEMENTS

- Led **13 events** as **Google Developer Students Club Lead**, IIIT Surat (2023).
- Designed problem sets for 3 contests as a **Problem Setter**, LCS IIIT Surat (2023).
- Attained the rank of **Knight at Leetcode with 1300+ questions** and a max rating of 1869.
- **Rank 2** IECSE 2022, part of the TNP brochure design Team 2021.
- Served as a Core Team Member in GDSC WoW Gujarat; **Tech Lead**, Spring Fiesta IIIT Surat.
- Completed **1000+ questions** on platforms like Codeforces, Codechef(max 1701), Geeksforgeeks, Interviewbit, Codestudio, etc.
- **National Awardee Dramatist** , U-19 National Cricketer for KVS , NCC A-Certificate