

DARSHAN SATAPARA

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Portfolio

LinkedIn

Leetcode

GitHub

Full-stack engineer building scalable web applications and high-volume data pipelines using React, Node.js, and Python. Driving business efficiency by architecting AI-powered automation suites, OCR systems, and LLM workflows to eliminate manual bottlenecks. Passionate podcaster and group discussion host, bringing strong communication skills and a highly collaborative mindset to fast-paced teams.

WORK EXPERIENCE

Intern - Backend & Python Developer, ZSpan

Jan 2026 - July 2026

- Automated PDF parsing workflows using **OCR services and OpenAI & Mistral AI** significantly reducing manual data entry bottlenecks.
- Developed a scalable client-agency platform backend using Node.js, implementing secure design asset-sharing via AWS S3.
- Aligned technical features with client requirements during Agile sprints, ensuring seamless cross-functional delivery.

Intern - Full-Stack Developer, instabizweb

Sep 2025 - Dec 2025

- Collaborated on "Instant Dukaan," a SaaS platform enabling local retail shops to rapidly deploy their online eCommerce storefronts. **InstantDukaan**
- Contributed to the development of "Blutec Ping," optimizing backend workflows for a bulk WhatsApp messaging service. **Ping**
- Assisted in building a Google Maps-based lead generation tool to streamline automated B2B data extraction and client discovery. **Scout**

Intern - Full-Stack Developer, Egniol Services Private Limited

July 2025 - Aug 2025

- Analyzed and consolidated complex architecture across 8-10 databases and 30+ interconnected tables containing 15+ million records.
- Made a centralized master data table, completely eliminating the performance overhead of resource-heavy, multi-join queries.
- Automated business workflows using Python: WhatsApp broadcasts (UltramsG Api), Specific Domain new scraper and Google review checkers.

Intern - Full-Stack Developer, Webseeder Technologies Private Limited

May 2025 - June 2025

- Engineered a full-stack eCommerce platform with secure Razorpay integration and robust admin management controls. **Mahendra Ke Namkeen**
- Co-developed a MERN-stack task management system to isolate and streamline multi-team project workflows.
- Optimized responsive design and frontend performance to ensure a highly seamless end-to-end user experience.

PROJECTS

Enterprise ETL & Denormalization Pipeline | SQL, Python, Database Architecture, ETL

- Streamlined a highly fragmented data ecosystem by successfully merging 30+ distinct tables across 8-10 separate databases, managing over 15 million individual records.
- Constructed a highly optimized, single-source-of-truth master table, eradicating the computational lag caused by complex, multi-join queries.
- Deployed a custom Python-driven ETL automation to continuously sync daily data inserts, accelerating overall query retrieval speeds by approximately 60%.

AI-Powered OCR Pipeline | Node.js, Python, OpenAI API, Mistral AI, Directus

GitHub

- Engineered an automated data extraction pipeline converting unstructured PDF brochures into database-ready JSON.
- Integrated OpenAI and Mistral AI APIs and try different OCRs (AWS, Azure, Mineru, Mistral) to intelligently parse complex document layouts and daily itineraries with high accuracy.
- Seamlessly synced processed data directly into a Directus headless CMS, reducing manual data entry bottlenecks by over 80%.

Multi-Model Content | Python, LLM APIs, Prompt Engineering, GEO

[Github](#)

- Architected an automated task-handoff pipeline orchestrating three specialized LLMs (Storyteller, Architect, Editor) for distinct roles.
- Developed a sophisticated framework to strictly enforce Generative Engine Optimization (GEO) and output "human-touch" formatting.
- Automated the generation workflow to entirely bypass manual prompting bottlenecks, successfully scaling high-quality SEO web content production.

Inshorts News Scraper | Python, BeautifulSoup/Selenium, Google Sheets API

[Github](#)

- Made a Python-based automation script to continuously scrape daily trending, domain-specific news directly from the Inshorts platform.
- Integrated the Google Sheets API to dynamically organize and distribute the extracted news data to the content writing team every morning.
- Eliminated the need for manual daily research, saving the team over 2 hours daily and significantly accelerating content generation workflows.

[Github](#)

Generative AI Fine-Tuning Pipeline | Python, Llama 3.1 8B, Unsloth, QLoRA, MongoDB

- Fine-tuned a Meta Llama 3.1 8B model utilizing the Unsloth library and QLoRA on dual T4 GPUs, optimizing hardware efficiency.
- Engineered a robust data ingestion pipeline to process, clean, and structure a golden dataset of 40,000+ MongoDB news articles.
- Designed advanced aggregation workflows to curate high-quality, domain-specific training data for specialized content generation.

[Github](#)

X (Twitter) AI Automation Bot | Python, X API, Mistral AI / OpenRouter APIs

- Developed a Python-based automation pipeline integrating free-tier LLM APIs to dynamically generate context-aware content.
- Engineered a scheduling system to autonomously publish targeted, AI-generated posts directly to an integrated X account.
- Eliminated manual social media management, boosting daily posting frequency and ensuring consistent platform activity.

Blutec Ping | Node.js, Express.js, WhatsApp API, MongoDB

[Ping](#)

- Optimized backend workflows for a bulk WhatsApp messaging service, significantly improving message delivery speed for enterprise clients.
- Integrated the WhatsApp API to handle high-volume message queues, ensuring scalable and reliable automated communications.
- Streamlined API response times and database queries, enabling local businesses to execute large-scale marketing broadcasts efficiently.

SKILLS

- **Programming Languages** : C++, Python, JavaScript
- **Backend Development** : Node.js, Express.js, Fast API, Directus, Supabase
- **Frontend Development** : React.js, Next.js, Streamlit, HTML, CSS, Tailwind CSS , Bootstrap
- **Databases** : MySQL, MongoDB, PostgreSql, Redis
- **Version Control & Collaboration** : Git, GitHub, GitHub Action
- **Core Skills** : Problem Solving, RESTful API Design, Database Design , Leadership
- **Others** : PowerBI, NumPy, Seaborn, Matplotlib, PyTorch, Pandas, WhatsApp broadcasting, WhatsApp API, Google sheet API, Google Cloud & its Filters , Twilio, Ultra message,blutec ping.

EDUCATION

B.Tech (Computer Engineering)

Silver Oak University(2022-26)

CGPA : 9.30

CERTIFICATE

- **Data Science With Python** Batweb Group of Companies
- **Data Analytics Job Simulation** Deloitte

LANGUAGE

- English
- Hindi
- Gujarati