



Jagrat Patel

Data Scientist

I am passionate Python Programmer who loves to create and develop Useful applications which would make life of users easier. Eventually, Machine Learning caught my interest as many industries have been using and optimizing their workflow. Hence my interest grew in Machine Learning and Data Science. I have done several internships and projects based on data Science and web development.

Projects

Contact

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Github

<https://github.com/TheJagStudio>

Education

2020-2024

Bachelor of Engineering

LDRP-ITR Computer Engineering

2019-2020

Higher Secondary

Atmiya Vidhya Mandir

Expertise

- Python
- Machine Learning
- Computer Vision
- LLM Programming
- Web Development
- ReactJs

Language

English

Hindi

Gujarati

FabricScan (December 2024 - February 2024)

- FabricScan is a cutting-edge computer vision application developed for Trolex Pvt. Ltd. that revolutionizes fabric inspection processes. Leveraging high-fidelity cameras and a proprietary segmentation model, FabricScan enables real-time detection of defects on fabric materials with unparalleled accuracy and efficiency.
- Prior to the implementation of FabricScan, manual inspection methods required workers to spend approximately 1 minute inspecting a 5-meter section of fabric. However, with the introduction of our innovative software solution, this process has been dramatically optimized. FabricScan now enables workers to inspect a remarkable 40-meter stretch of fabric within the same 1-minute timeframe, representing a significant increase in inspection throughput and productivity.
- Through the seamless integration of Python and ReactJS technologies, FabricScan delivers a user-friendly interface for intuitive operation while harnessing the power of advanced computer vision algorithms in the backend. This project stands as a testament to our commitment to driving efficiency and accuracy in industrial inspection processes, ultimately enhancing overall productivity and quality control standards within the fabric manufacturing industry.

LDRP CMS (June 2023 - January 2024)

- Comprehensive Content Management: LDRP College Management System (LDRP-CMS) offers a comprehensive solution to streamline administrative and academic processes within the college, providing a centralized hub for efficient operations.
- Integrated Communication Hub: The platform includes a mass messaging system for broadcasting announcements and updates, seamlessly integrated with Gmail for efficient communication.
- Google Workspace Integration: Integration with Google Drive enables efficient document sharing and collaboration, while synchronization with Google Calendar simplifies scheduling and event management.
- Diverse Admin Panels: Dedicated admin panels cater to various roles including superadmin, principal, HODs, faculty, and students, ensuring tailored access and management capabilities.
- Project and Request Management: Centralized project management tools facilitate academic and extracurricular project coordination, alongside a streamlined process for students to submit requests for various services with automated workflow for approval.
- User-friendly Interface with Security Measures: The system boasts an intuitive interface for easy navigation and accessibility, coupled with robust security measures including role-based access control to safeguard sensitive data, ensuring user privacy and data integrity.

LawGPT (May 2023 - May 2023)

- LawGpt is a revolutionary AI-powered legal assistant that leverages the capabilities of advanced language models, such as LLama2, to provide users with a comprehensive suite of legal services. Its primary goal is to empower individuals and professionals with the knowledge and tools they need to navigate the complex world of law effectively.
- It enhances professional practice by streamlining document drafting processes and keeping legal professionals updated on recent cases and precedents.
- LawGpt simplifies legal matters through natural language processing and a robust case library, making it accessible to a wider audience.
- It offers a library of customizable legal document templates, expediting document creation.
- LawGpt provides multi-lingual support, making it accessible to a global audience.

Other Works

- LDRP-ITR's Xenesis Event Website for 2023 and 2024
- Attendance Portal for LDRP-ITR
- Kijeka Engineers Pvt. Ltd. ecommerce website
- Projects for Pruthatek Pvt. Ltd.
- Student Organizer at HASOC
- Published a paper on Leveraging Language Models For Code Comment Classification at FIRE (Forum for Information Retrieval Evaluation)

○ PurelyAI (April 2023 – April 2023)

- PurelyAI is a user-friendly, no-code machine learning tool designed to empower individuals and businesses to harness the power of artificial intelligence for predictive analytics, classification, and time series forecasting. This innovative platform seeks to democratize AI and make complex data-driven tasks accessible to everyone, regardless of their technical expertise.
- The platform simplifies time series analysis, helping users identify patterns and anomalies in historical data. It provides data visualization tools for insightful exploration and effective communication. Data integration allows seamless connection to various data sources, ensuring up-to-date information.
- PurelyAI promotes collaboration, enabling real-time teamwork and knowledge sharing among team members working on AI projects.
- PurelyAI aims to break down barriers to AI adoption, providing a no-code solution for individuals and businesses seeking to harness the potential of artificial intelligence in their problem-solving endeavors.

○ PurityAI (March 2023 – April 2023)

- PurityAI is a Chrome extension that allows users to block NSFW content from images, text, audio, and video from the internet
- The extension uses artificial intelligence to identify and filter out NSFW content, so users can browse the web safely and without unwanted exposure
- Project Goals: The goals of PurityAI are to: Protect users from exposure to harmful or unwanted content Promote a safe and positive online experience Provide users with control over their online experience
- Additional Features : Image Upscaler, Text to Image Generator, Image Background Remover and etc.

○ Procom (July 2022 – January 2023)

- Procom is a product comparison website that allows users to compare products from any domain
- Users can search for products by category, brand, or price, and then compare the features and specifications of different products
- Procom also provides users with reviews and ratings of products from other users
- Project Goals: The goals of Procom are to: Provide users with a comprehensive and easy-to-use product comparison tool Help users make informed decisions about which products to buy Promote competition and innovation in the marketplace

○ Food Compare (January 2022 – February 2022)

- Food Compare is a website and mobile app that allows users to compare food prices from multiple platforms like Swiggy, Zomato, etc
- In real time, Users can search for food items by name, cuisine, or location, and then compare the prices of the same item from different platforms
- Food Compare also provides users with reviews and ratings of food items from other users
- Project Goals: The goals of Food Compare are to: Help users save money on food Provide users with a convenient way to compare food prices Promote competition and innovation in the food delivery marketplace
- Project Scope: Food Compare will initially focus on comparing food prices from the following platforms: Swiggy Zomato Uber Eats

Extra-curricular activities

○ GTA6 Graphics Design , Rockstar Games

I was given a opportunity to develop Game Graphics for GTA6 Game. | have created Characte concept art for the game.

○ Break the Barrier Hackathon , LDRP-ITR

I had participated in Break the Barrier National hackathon by LDRP-ITR. We had developed a Food Compare application. We also won the overall third price.

○ Volleyball CBSE Cluster level, CBSE

I was selected for the CBSE Volleyball competition at clusters level after a rigorous selection process. | had to compete against other students from my school and district to be selected for the team. And we won Silver Medal at competition.

Work history

○ Internship for LLM Development | IIT Kharagpur

Remote - November 2023 - January 2024

- Internship at IIT Kharagpur: Engaged in LLM Development under the mentorship of Professor Partha Pratim Das, focusing on analyzing LLM outputs.
- Statistical Analysis: Developed statistical models and methods to analyze LLM (Laser Line Microscope) data, aiming to derive meaningful insights and conclusions for the project.
- Research Collaboration: Collaborated closely with Professor Das and the research team to understand project objectives and align statistical analysis with research goals.
- Data Interpretation: Utilized advanced statistical techniques to interpret LLM outputs, identifying patterns, trends, and anomalies to aid in project decision-making.
- Report Generation: Generated comprehensive reports outlining statistical findings, interpretations, and recommendations to contribute to the advancement of the project.
- Learning and Development: Gained valuable experience in LLM technology and statistical analysis methodologies, enhancing skills in research, data analysis, and academic collaboration.

○ Web Developer | Pruthatek

Gandhinagar - December 2021 - January 2023

Experienced web developer skilled in turning mockups into functional websites using a combination of HTML, JavaScript, Python, and JSON. Proficient in HTML, CSS, JavaScript, ReactJs, and Django Python for web development. Strong focus on security maintenance and post-launch patching to ensure the continued viability of websites.

○ Web Developer | The Foundation for Defense of Democracies

Remote - January 2021 - November 2022

Experienced Graphics Designer with a transition to API development, proficient in web development, data manipulation, and API integration. Skilled in scraping techniques and data retrieval, valuable for building applications and machine learning models for online data extraction.

○ Data Analyst | Aximind

Remote - January 2021 - April 2022

Experienced remote worker at Aximind, a Bangalore-based startup, specializing in AR and VR industrial applications. Proficient in client requirement analysis, resource assessment, and client satisfaction prediction through a developed system.