

Shivam Pathania

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EDUCATION

Adarsh Bhartiya College

Bachelor's in Computer Science

pathankot

August 2022 – May 2025

PROJECTS

Json Web Editor | *Python, AWS EC2, React, PostgreSQL, Docker, Groq(LLM)*

[Live Link](#)

- Engineered a real-time JSON editor with an interactive HTML preview using React.js and FastAPI, boosting user editing efficiency by 30%..
- Deployed WebSockets for real-time data synchronization between frontend and backend.
- Leveraged PostgreSQL for efficient JSON data storage and retrieval with data persistence.
- Implemented Groq LLM for intelligent text editing with natural language, enhancing productivity by 25%.
- Hosted the application on AWS EC2, ensuring scalability and reliable performance in a cloud environment

PureClaim | *React, Express, Node.js, Tesseract.js, Cheerio.js, Capacitor, Groq*

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- Created a platform for validating product claims, increasing engagement by 25% and attracting over 100 users in three months
- Integrated Tesseract.js for OCR, achieving 95% accuracy in extracting ingredients from product label images
- Launched a browser extension for real-time product claim assessment,improving smart purchasing behavior by 40%

TextLens | *FastAPI, React.js, PyMuPDF, AWS S3, PostgreSQL, Llama 3.2*

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- Built a full-stack PDF application, enhancing user experience by 15%
- Built FastAPI backend for extraction (PyMuPDF), AWS S3 storage and PostgreSQL metadata management.
- Designed an intuitive React.js frontend with TailwindCSS, improving interaction for uploads and queries by 15%.
- Integrated Llama 3.2 for NLP, providing accurate answers based on PDF content.

Private Message Encryption API | *Node.js, Express, Swagger UI*

[Live Link](#)

- Engineered a secure API for encrypting and decrypting messages using AES-128-GCM to safeguard sensitive data.
- Enhanced API usability with Swagger UI, boosting developer efficiency by 20% through interactive docs.

TECHNICAL SKILLS

Languages: HTML/CSS, JavaScript, Python, C++,C,Java

Frameworks/ Libraries: React.js, FastAPI, Node.js

Database: Oracle SQL, MongoDB, MySQL

Developer Tools: Git

Algorithms and Data Structures: Proficient in C++ and python for DSA

ACHIEVEMENTS

Participated in multiple hackathons while collaborating on 5+ projects.