

# ISHAN PATIL

UNDER GRADUATE

## PROFILE

Motivated and quick-learning developer with a strong foundation in Python, Java, C, MySQL, and MongoDB, currently working on web development projects using JavaScript and React. Good at problem-solving, writing clean code, and learning new technologies efficiently. Interested in gaining hands-on experience through internships where I can contribute to real projects, learn from experienced developers, and continue improving my technical and teamwork skills.

## PROJECTS

- Real-Time Disaster Alert & Relief Coordination Platform (Hackathon)
- Built a scalable real-time disaster management system with alerting and AI-based damage assessment using React, Node.js, MySQL, MongoDB, and REST APIs.
- Web Scraper for Active Domains & Email Extraction
- Developed a scalable web scraping tool to search websites by keyword and country, validate active domains, and extract emails using Python, BeautifulSoup, Requests, Regex, and concurrency, with results stored in CSV.
- Pneumonia Detection using Chest X-ray Image Analysis
- Built an end-to-end pneumonia detection system for chest X-ray analysis using Python, Flask, OpenCV, SSIM, MSE, CNNs, achieving ~94% training accuracy.
  - Integrated Google Gemini API to generate AI-driven medical insights and interpretable diagnostic reports.
- Agri-Sense: AI for Agriculture
- Built AgriSense, an AI-driven agriculture platform for crop recommendation, disease detection, and advisory chatbots using Python, Flask, ML models, Google Gemini (GenAI), HTML, Tailwind CSS, and JavaScript.
- OCR & Document Text Analyzer
- Built a Python-based document analysis tool with OCR using Tesseract, OpenCV, and preprocessing techniques for text extraction, batch processing, and statistical analysis across PDFs, images, CSV, and TXT files.

## CERTIFICATES

- Samsung Innovation Campus (SIC) Program certification in coding and programming from Samsung R&D Institute India – Bangalore  
#SIC\_SRIB\_2024
- Cybersecurity Fundamentals — IBM SkillsBuild (IBM), focused on core security concepts, threats, vulnerabilities, and best practices.
- Introduction to Modern AI — Cisco Networking Academy: fundamentals of modern AI concepts, applications, and impacts.

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## EDUCATION

- 2023 - 2027
- KLE INSTITUTE OF TECHNOLOGY, HUBLI
- Bachelor of Computer Science Engineering (Pursuing)
  - GPA: 8.5
- 2025 - 2029
- DELHI PUBLIC SCHOOL - INDIA
- Higher Secondary Education(12th Grade)
  - Secondary Education(10th Grade)

## SKILLS

- Programming:** Python, Java, C
- Web Development:** HTML, CSS, JavaScript, React, Tailwind CSS
- Databases:** MySQL, MongoDB
- Tools & Platforms:** Node.js, Git, Kali Linux, CMake, Make
- AI/ML & Data:** NumPy, Pandas, scikit-learn, OpenCV, TensorFlow (beginner), OCR (Tesseract), API integration

## LANGUAGES

- English
- Kannada
- Hindi

## EXPERIENCE

Hands-on experience building and delivering functional software prototypes under tight timelines, contributing across frontend development, backend API integration, and AI/ML component design. Worked on data-driven systems with a focus on scalability, usability, and efficient problem-solving in collaborative environments.

## ADDITIONAL INFORMATION

- Interests: AI/ML, Cybersecurity, Quantitative Finance, API-driven Applications
- Strengths: Analytical mindset, rapid learning, problem-solving, teamwork, leadership
- Currently Learning: Machine Learning algorithms, data preprocessing, model deployment with Flask/FastAPI