

Piyush Saini

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Education

Lovely Professional University, Phagwara, Punjab, BTech in Computer Science Aug 2023 – Present

- GPA: 7.8

Army Public School, Unchi Bassi, Punjab, High School Apr 2021 – Apr 2022

- GPA: 8.1

Projects

Optimus Event Hub (Full Stack with Supabase and TypeScript) Jul 2025 - Present

- Built a live event management platform where user can create, register, and manage events.
- Implement the backend with Supabase for authentication, database and API handling.
- Developed the frontend in TypeScript with a responsive UI, and integrated a secure payment gateway with PayTM PG for the event registration.

AI Chatbot for Courses and Job Recommendation Feb 2025 – Mar 2025

- Built a chatbot that recommends online courses and jobs suggestion using an AI model.
- First, an API fetch 50 possible courses and jobs. The trained Model then rank those and pick up the best 3 best matches based on a person's interest, skills, and current market Trend.
- Made to help learner find the most suitable courses and career steps quickly.

Drone vs. Bird Detection System (AI-Based Yolo Model) Dec 2024 - Jan 2024

- Automated Aerial Object Classification: Developed an AI/ML system using a Convolutional Neural Network (Yolo) model to accurately distinguish between drones and birds.
- Achieved High Detection Accuracy: By training the Yolo model on a large dataset of drone and bird images, the system reached over 90 percent accuracy in differentiating between the two objects.

Sign Language Detection System (Real-Time) Mar 2025 - Apr 2025

- Developed a real-time sign language detection system using TensorFlow and MediaPipe, achieving 90 percent accuracy across 50+ custom gestures with smooth inference at 20+ FPS.
- Designed a full ML pipeline to collect, preprocess, and model 5000+ gesture frames, combining pose and dual-hand landmarks into 225-dimensional feature vectors for robust recognition.

Certification and Achivement

- HTML and CSS – FreeCodeCamp, Jul 2025
- Social Networking – NPTEL, Mar 2025
- Solved 150+ DSA problems on LeetCode (Arrays, Trees, Backtracking, DP)
- 5 star in Python, C, C++ on HackerRank
- Participated in 5+ AI/IoT Hackathons

Technical Skills

Languages: C++, C, Java, Objective-C, C#, SQL, JavaScript

Technologies: Git, Docker, Google Cloud Platform, VS Code, Jupiter

Libraries and Framework: pandas, NumPy, React.js, Node.js, Next.js, TensorFlow, MediaPipe, OpenCV, YOLOv5

Extra Curricular activities

Tech Lead, Optimus Club: Maintain and manage the club website

Hobbies: Passionate about music and instrumental soundtracks