

KHUSHI PANDYA

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[GitHub](#) | [LinkedIn](#) | [Portfolio](#) | [Kaggle](#) | [Dev.to](#)

PROFESSIONAL SUMMARY

Software Engineer with 1+ year of professional experience building full-stack applications, REST APIs, and AI-integrated systems. Proficient in Python, Java, and JavaScript across Spring Boot, Flask, FastAPI, and Frappe. Hands-on with LLMs, NLP, and computer vision — including an IEEE-published sign language recognition system and a production Voice AI deployment. Comfortable owning features end-to-end: API design, database modelling, CI/CD, and frontend integration.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript

Backend Frameworks: Frappe, Spring Boot, Flask, FastAPI, Django

Frontend: React.js, Tailwind CSS, Alpine.js, HTML, CSS, Vite

AI / ML: Deep Learning, Computer Vision, NLP, LLMs, Generative AI, Prompt Engineering, TensorFlow, OpenCV, MediaPipe

Databases & Caching: MySQL, MariaDB, PostgreSQL, MongoDB, Redis

DevOps & Tools: Git, GitLab CI/CD, Linux (Ubuntu), Postman, REST APIs, GraphQL, Typesense, Asterisk/FreePBX

PROFESSIONAL EXPERIENCE

Junior Software Developer — STP Web Hosting, Rajkot, Gujarat

Aug 2025 – Present

- Architected and deployed a Voice AI system integrating Asterisk telephony with OpenAI LLMs and Google STT/TTS to automate real-time inbound customer calls, including AI-to-human transfer and round-robin routing.
- Engineered a full-featured Job Search Platform on Frappe, designing custom schemas for employers/jobseekers and integrating Typesense for sub-millisecond full-text search and advanced filtering.
- Led end-to-end GPU infrastructure integration, managing API-driven volume deployments, instance lifecycle rules, and automated billing systems.
- Automated CI/CD pipelines using GitLab CI with rsync-based deployments to staging and production Ubuntu servers.
- Optimised LLM response quality through iterative prompt engineering workflows for in-house AI automation tools.

Software Development Engineer – Backend — Shipturtle Apps, Ahmedabad, Gujarat

Aug 2024 – Mar 2025

- Developed backend services in Java and Spring Boot for a multivendor SaaS marketplace, integrating Shopify via GraphQL and REST APIs.
- Designed and delivered scalable REST APIs with robust validation, structured logging, and error handling, supporting external developer onboarding.
- Studied Amazon and Etsy marketplace developer API documentation and began integrating those store platforms with Shipturtle's multivendor system.

PROJECTS

Gujarati Sign Language Recognition App Oct 2024 – Mar 2025

- Built a real-time sign language recognition web app (Flask) with a custom-trained CNN achieving 90% accuracy across 34 Gujarati hand gestures; benchmarked 5 architectures (CNN, VGG19, ResNet50, SVM, ANN).
- Related IEEE-published paper benchmarked 7 ML/DL models on a 3,798-image dataset — VGG19 achieved 94% accuracy (IEEE MPsec ICETA 2025).

Tech: Python, Flask, TensorFlow/Keras, OpenCV, MediaPipe | github.com/khushi-79/Gujarati-Sign-Language-Recognition-App

PUBLICATION

"Advanced Machine Learning and Deep Learning Techniques for Gujarati Sign Language Recognition"

IEEE MPsec ICETA 2025, Gwalior, India — Contributor; curated a 3,798-image dataset, trained and benchmarked 7 ML/DL models. VGG19 achieved 94% accuracy. DOI: 10.1109/MPsecICETA64837.2025.11118850

CERTIFICATIONS & ADDITIONAL RESEARCH

- Deep Learning — IIT Ropar (NPTEL), Qualified, Jul–Dec 2024
- Prompt Engineering — Infosys Springboard, Sep 2024 | AWS Data Engineering — AWS Academy, Mar 2024
- Published 5 Kaggle notebooks on Computer Vision & Medical Imaging — kaggle.com/khushihpandya
- Technical writing on Dev.to covering AI/ML systems and production engineering — dev.to/khushipandya

EDUCATION

B.Tech, Information and Communication Technology

Marwadi University, Rajkot | 2021 – 2025 | CGPA: 8.86 / 10.0