

Shishir Mishra

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SUMMARY

Computer Science and Engineering (AI) graduate and founder of TEAM-PSMPV, with experience in LLM evaluation, deep learning, geospatial data engineering and software product development. Built and shipped Android and healthcare products, curated a bitemporal SAR flood benchmark, and managed a five-member team across engineering and sales. Combines Python/PyTorch expertise with product delivery, team leadership and client acquisition.

WORK EXPERIENCE

Founder & Product Developer | [TEAM-PSMPV](#) | Moradabad

Jun 2026 – Present

- Founded TEAM-PSMPV as a sole proprietorship and led product development for OfflineTTS, AppointFlow and LeadForge, from requirements and implementation to release and support.
- Managed a five-member team comprising 2 team leads, 2 collaborators and 1 code reviewer; coordinated product engineering, code reviews, lead generation and sales.
- Closed and delivered a ₹50,000 dynamic website contract for Anand Hospital, translating client requirements into a 65+ page SEO-optimised website with an AI chatbot and AppointFlow integration.

LLM Post-Training Intern (Evals Project) | Ethara AI | Remote

(Apr – May 2026)

- Conducted LLM evaluation, annotation, and quality benchmarking using RLHF and SFT methodologies.
- Analyzed model outputs for reasoning, factuality, safety, and instruction-following to support post-training optimization.
- Contributed to scalable evaluation workflows for production-grade Generative AI systems.

PROJECTS

BHARATFLOODSAR – Bitemporal SAR Flood Benchmark and Model Pretraining

Python, PyTorch, Google Earth Engine, QGIS, Weights & Biases

- Curated BharatFloodSAR-v1, an India-specific benchmark across 20 flood events (2015–2024), 12 states and 7 terrain types; processed 285 GB of Sentinel-1 GRD imagery into ~2,400 annotated 256×256 chips.
- Combined Otsu thresholding and JRC water masking with QGIS validation against NRSC Bhuvan maps, achieving ≥80% spatial agreement.
- Pretrained UNet++ (EfficientNet-B4), Swin-Tiny UNet and SegFormer-B0 on the [Modified Sen1Floods11 dataset](#); tracked training runs in W&B.

OfflineTTS – Offline Android Text-to-Speech Application

Kotlin, Jetpack Compose, ONNX Runtime, Piper, Kokoro, eSpeak NG

- Built and published a private Android text-to-speech app supporting 10 languages (11 locale options); achieved 100+ organic Google Play installs.
- Integrated language-aware phonemization and chunked ONNX inference for quota-free long scripts, tested with 70,000+ characters; speech generation runs on-device after model download.
- Added downloadable/deletable voice models, background conversion, audio preview, saving and sharing for offline narration.

Anand Hospital – Dynamic Healthcare Website and AppointFlow Integration

Next.js, React, TypeScript, Vite, Cloudflare Workers, GitHub Actions

- Delivered a 65+ page SEO-optimised hospital website covering doctors, services and patient resources, with responsive navigation, site search and structured data.
- Integrated an AI enquiry chatbot and AppointFlow booking to connect website appointment requests with reception and doctor workflows.
- Deployed on Cloudflare Workers with GitHub Actions CI/CD and implemented web security headers.

AppointFlow – Hospital Appointment and Queue Management

React, TypeScript, Vite, Cloudflare Workers, D1/SQLite, PWA, SSE

- Built and deployed a hospital appointment PWA with separate doctor/staff dashboards, doctor-wise queues, rescheduling and consultation tracking; trained Anand Hospital reception staff.
- Implemented hospital-scoped access, UHID-linked patient history and atomic queue tokens; database verification checks prevent duplicate or unverified request bookings.
- Connected website requests to a staff-verified booking workflow, with SSE inbox updates keeping reception informed of incoming requests.

SENTIENT – Conversational Multimodal AI ChatBot

Python, LangChain, Ollama, Streamlit, LLaMA 2, LLaVA, Whisper

- Built a locally deployed multimodal AI assistant for text, images, PDFs and audio, integrating LLaMA 2, LLaVA and Whisper.
- Orchestrated models through a modular LangChain pipeline, enabling context-aware multimodal interaction and local inference.

TECHNICAL SKILLS

- **Languages:** Python, C++, Java, SQL, HTML, CSS, Bash
- **ML/AI Frameworks:** PyTorch, LangChain, Transformers, scikit-learn, OpenCV
- **Web & Backend:** Spring Boot, Streamlit, FastAPI
- **Tools & Platforms:** Git, GDAL, Rasterio, GeoPandas, QGIS, Google Earth Engine, Weights & Biases
- **Data Tools:** NumPy, Pandas, Matplotlib, Albumentations
- **Soft Skills:** Analytical Thinking, Team Collaboration, Problem Solving, Communication, Adaptability; Team Management (5 members: 2 team leads, 2 collaborators, 1 code reviewer); Sales (closed and delivered Anand Hospital’s ₹50,000 dynamic website contract)

EDUCATION

- **B.Tech. Computer Science and Engineering (AI) | Minors in Robotics** [2022 - 2026]
Galgotias College of Engineering and Technology | *CGPA:7.98*
- **Class XII (CBSE): 82.4% | Class X (CBSE): 95.6%**

CERTIFICATIONS & ACHIEVEMENTS

- **Artificial Intelligence - Search Methods for Problem Solving** (IIT Madras NPTEL) (July – Oct 2023)
- **Programming in Java** (IIT Kharagpur NPTEL Elite) (Jan – Apr 2024)
- Active Member of Photo & Video Editing Club (*We Create Magic*) member of College; (*Enthiran Club*) (Tech, Development & Creative divisions)
- Multiple International Olympiad Medals (*IMO Level 2, IEO Level 2; SOF Foundation awards*).
- Played U-14 district cricket tournaments after clearing UPCA trials.