Pranav Shrikant Page

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Work Experience

Flosync **Mumbai**
Founding AI Architect *Jan 2026 – Present*

- Joined as the **first engineer**, working with plant management and shop-floor operators at large manufacturing enterprises to understand their problems and deploy AI products.
- Built and deployed a **voice-based interviewing system** that ran 100+ interviews in Hindi and English across multiple plants, capturing troubleshooting knowledge from operators and production leads using incident-based questioning, expert memory-recall prompts, and debrief agents that triggered follow-up interviews; built on ElevenLabs agents, OpenAI APIs, and AWS Bedrock-hosted LLMs.
- Contributed to a **decision-tree troubleshooting app** for shop-floor operators, with guidance regularly updated using knowledge collected through expert interviews; maintained its Supabase backend and collaborated with a frontend engineer on the native iPad app.
- Built a **RAG-based troubleshooting assistant** on Dify to guide shop-floor operators through incident resolution. Used DeepEval for regression and adversarial testing of hallucinations, contradictions, and response reliability.
- Deployed AI applications under enterprise security and infrastructure constraints, including a **production rollout** at a US manufacturing facility of an NYSE-listed client.

Carnot Technologies **Mumbai**
Data Scientist *Aug 2024 – Dec 2025*

- Developed the **Fleet Analytics Platform** for owners of 10–500 tractors, combining real-time telemetry, alerts, and usage stats, and integrating with ERP systems used by sugar mills, aggregators, FPOs, and plantations.
- Contributed to the **OEM Intelligence Suite**, built on data from 30,000+ OEM and 15,000+ aftermarket tractors; merged telemetry with rainfall, weather, and cropping patterns to cluster user behavior, define personas, and analyze market composition for OEM clients like Mahindra and Swaraj.
- Trained ML models for **harvest detection** (78% accuracy, SAR imagery) and high-yield farm classification (70% accuracy), deployed in a tool used by sugar mills in India for planning and procurement.
- Built an internal **Text2SQL assistant** with a Streamlit chat UI for querying production databases, using vector search over curated queries, business terms, and schemas to construct prompts, and returning LLM-generated SQL results with automated summaries and charts.

Qualcomm **Bangalore**
PHY Modeling Engineer *Jul 2023 – Jul 2024*

- Modeled packet boundary detection, symbol timing, and synchronization algorithms for upcoming Qualcomm Wi-Fi chips targeting AP/STA devices under evolving **IEEE 802.11** standards.
- Implemented and optimized receiver algorithms in C++, achieving a **0.5 dB sensitivity gain** in a key edge case by refining coarse and fine symbol timing logic.

Technical Skills

AI & Voice	ElevenLabs Agents, OpenAI APIs, AWS Bedrock, Dify, LangGraph
AI Evaluation & Observability	DeepEval, Arize Phoenix, LangSmith, Portkey
Backend & Data	FastAPI, REST APIs, PostgreSQL, Supabase, DuckDB, SQLMesh
Cloud & Infrastructure	AWS (Lambda, ECS, S3, RDS), Docker, Git, Linux
Languages	Python, TypeScript, C++, SQL, Bash

Education

IIT Bombay **Mumbai**
B.Tech + M.Tech, Electrical Engineering *2018–2023*
CPI: 9.20/10, **Specialization:** Communications and Signal Processing, **Minor:** Computer Science

Selected Projects

Asset Intelligence Copilot *Oct 2026*

- Built a chat copilot over an oil-field dataset (600 wells, 4 years of history): a **LangGraph ReAct agent** calls typed SQL tools, cites record IDs, and renders charts, tables, and maps; evaluated on an 18-question suite.

Node Cardinality Estimation in Wireless Networks, IIT Bombay *Jan 2023 – Jul 2023*

- Proposed a **Privileged Feature Distillation** method using a **teacher-student network** for IoT/RFID node count estimation, with up to **94% lower MSE** than prior state-of-the-art; published in *IEEE TMLCN*, 2024. [DOI]