Dhruvin K. Dave

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Applied AI engineer who builds whole AI systems on real data: computer vision, forecasting and language models, plus the backend, dashboard and tests around them. Team leader, 4th of about 3,000 teams at IBM Bob 2.0; open-source contributions to OpenSRE and LiteLLM.

Achievement

IBM Bob 2.0 Hackathon · Team leader, System DNA — Sep 2026

- **4th of about 3,000 teams** (about 10,000 individual participants) in IBM's 48-hour online build on lablab.ai.

Experience

Intuitive.ai · Applied AI Engineering Intern — Aug 2026 – Present

- Designed and built **Office Vision Twin**, a pilot-ready security digital twin: live room occupancy on a floor plan from CCTV analytics and badge-reader events, with rule-based detection of tailgating, unauthorised entry and after-hours breaches; no facial recognition.
- Integrated **Amazon Bedrock** to write up each incident, with a second pass that checks every statement against the event records; the best model passed every check on 22 of 27 eval cases.
- Owned the system design end to end (FastAPI, React, YOLO on OpenVINO, video processed locally): **6 cameras at 5 fps, frame-to-twin p95 95–121 ms**, 313 backend and 33 dashboard tests.

Catalyst Partners · Python Developer Intern — Jun 2026 – Jul 2026

- Optimised the SQL Server queries behind a report in a production Django application: **60–80 s down to about 10 s**, with identical output.
- Validated on **5,921 records** with no missing or duplicate rows.
- Built Python and Selenium scrapers for dynamic sites, with pagination, downloads and data checks.

Two Pointers Pvt. Ltd. · Full Stack Web Development Intern — Jun 2025 – Feb 2026

- Built an online course website in Django: user authentication and role-based authorisation, dynamic certificate generation, a responsive frontend and an SQLite data layer.
- Wrote Python automation and web-scraping scripts.

Open source

Contributed fixes to OpenSRE, an open-source toolkit for AI SRE agents, and to LiteLLM.

OpenSRE #6840	Jira: moved issue search to the enhanced JQL endpoint; fixed pagination.
OpenSRE #6969	Bitbucket: scoped code search to the repository being investigated.
OpenSRE #6970	Vercel: read runtime logs from the project endpoint and report failures.
LiteLLM #48732	Kept the system role for OpenAI o3, o3-mini and o4-mini, and on Azure.

Projects

AirfieldShield scikit-learn, Django, Celery

Thunderstorm and strong-wind nowcasts for six Indian airfields from 470,057 station-hours of METAR reports. Calibrated gradient boosting at 1 h and 3 h; **next-hour thunderstorm PR-AUC 0.576** on held-out 2023–24, against 0.409 for persistence. Served by a Django REST API with Celery schedules.

groundcheck Python, LLM evaluation

An open benchmark that tests whether LLM agents point to the right log lines when they answer. 123 scenarios, metrics with bootstrap 95% CIs, adapters for Anthropic, Bedrock and OpenAI-compatible models; a keyword baseline drops from F1 1.00 to 0.65 once half the log is decoys.

Education

LJ University, Ahmedabad · B.E. Computer Engineering — 2022 – 2026

- All examinations completed. Led the university technical club (200+ students).

Skills

Languages	Python, Java, JavaScript, SQL
AI and LLMs	Amazon Bedrock, Anthropic and OpenAI APIs, LiteLLM, LLM evaluation, structured outputs
ML and vision	scikit-learn, calibrated gradient boosting, YOLO, OpenVINO, object tracking
Backend	Django, Django REST Framework, FastAPI, Spring Boot, Celery, REST APIs
Data and tools	PostgreSQL, SQL Server, SQLite, Redis, pytest, Selenium, Git, React