Archit Bhuta

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EDUCATION

Thakur College Of Engineering and Technology **Year: 2023- Current**
Bachelor of Engineering – 8.69 Mumbai, India

COURSEWORK / SKILLS

- Artificial Intelligence
- Machine Learning
- Database Management System (DBMS)
- Data Structures & Algorithms
- Data Science
- OOPS Concept
- Operating Systems
- Web Development

PROJECTS

AirportOps| Python · FastAPI · Pydantic · Docker · OpenAI API · Hugging Face Spaces **March 2026**

- Built an OpenEnv-compliant reinforcement learning environment for the Meta × PyTorch × Hugging Face Hackathon where an LLM agent plays an Airport Ground Operations Controller across 3 progressively harder tasks.
- Scored each agent action from 0 to 1 on priority, resource matching, ETA and crisis-protocol compliance, with per-task graders and regression tests for reward hacking; served as a FastAPI REST API.

Wheat Rust Detection (BE Project)| PyTorch, Python, Google Earth Engine, pytest **Aug 2026 – Present**

- Built a pipeline that turns Sentinel-1 radar, Sentinel-2 optical and weather data into per-parcel time series, and a transformer that detects wheat rust from village-level survey labels.
- Built a leakage-controlled evaluation: per-fold leakage tests, shortcut baselines (date, weather, geography, metadata), a locked benchmark, and paired bootstrap and McNemar tests, run in GitHub Actions.

Magnite LLM – Local LLM Desktop App| C++20, Qt 6, Python, FastAPI, llama.cpp **Nov 2026 – Present**

- Team project: a desktop app to download, run, fine-tune (LoRA) and query language models and documents (RAG) locally, with a Qt 6 client supervising a FastAPI backend.
- Secured the local API with a unit-tested per-launch token and Host allow-list; built cancellable model downloads.

Brightloop – Subscription Management| Next.js, TypeScript, Prisma, PostgreSQL **October 2026**

- Built the billing engine and invoice workflow in a four-person team: each period bills at most once (unique constraint, per-subscription transactions), verified by seven scripts covering unit, database and HTTP role-matrix cases.

AI-Powered E-Consultation Suite| Python, Streamlit, PyTorch, Transformers **September 2025**

- Built a Smart India Hackathon app that scores comment sentiment with RoBERTa, extracts key phrases, and summarizes long text with DistilBART; a Playwright scraper loads comments from a URL.

INTERNSHIP

Oasis Infobyte **Dec 2025 – Jan 2026**
Web Developer Intern Mumbai, India

- Delivered 3 frontend projects using React.js + Tailwind CSS; optimized assets and implemented lazy loading.

TECHNICAL SKILLS

Languages: Python, Java, C, C++, JavaScript, TypeScript
AI & Testing: PyTorch, Hugging Face Transformers, OpenAI API, LLM agent evaluation, pytest, unittest, Playwright
Technologies/Frameworks: FastAPI, REST APIs (OpenAPI/Swagger), ReactJS, Next.js, HTML5, CSS3, SQL (Basic), PostgreSQL, MongoDB (Basic), Google Earth Engine, Ollama
Developer Tools: VS Code, Antigravity, Git & GitHub, GitHub Actions, Docker, Figma

EXTRACURRICULAR

Technical: Taking part in Hackathons like the MumbaiHacks- Reaching round-2
Leadership: Rotaract Club Member at TCET; engaged in community service.
Sports: Actively engaged in football, developing teamwork and discipline.
Cultural: Performed at cultural events as a guitarist.

CERTIFICATIONS

- Introduction To Python- Data Flair