Yash Brahmankar

MACHINE LEARNING ENGINEER — DEVELOPER

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Bhopal, Madhya Pradesh — India

Education

Oriental Institute of Science & Technology, Bhopal 2024 – 2028

B.Tech – Artificial Intelligence & Machine Learning

Projects

OpenML Flow — Visual ML IDE github.com/loisekk/openml-flow

Local-first visual ML IDE — node-based pipeline builder combining n8n-style automation with JupyterLab-level depth. React 19 (React Flow, Zustand, Monaco) frontend over a Python FastAPI backend (HTTP + SSE); auto-generates editable pandas/scikit-learn code in real time. Local subprocess execution (zero data leakage, no cloud GPU cost), BYOK copilot (OpenAI, Groq, Ollama), 30-second Docker Compose deploy.

Tech: *Python, FastAPI, React 19, React Flow, scikit-learn, pandas, Docker*

OpenML Pipe — Zero-Touch AutoML CLI (PyPI Package) github.com/loisekk/open-mlpipe

Published Python package on PyPI (pip install open-mlpipe) — one-command AutoML for tabular data: auto EDA, cleaning, feature engineering, and preprocessing, followed by head-to-head comparison across 14+ models (XGBoost, LightGBM, ensembles) with Optuna tuning and SHAP explainability. Optional one-line FastAPI + Docker deploy. MIT licensed, 113/113 tests passing.

Tech: *Python, scikit-learn, XGBoost, LightGBM, Optuna, SHAP, Pydantic, Click, FastAPI, Docker*

PyPI: pypi.org/project/open-mlpipe

Atelier AI — Company OS (3D AI Visual OS) github.com/loisekk/AtelierOS

3D visual OS for autonomous AI teams — a spatial company HQ dispatching tasks to a multi-agent LangGraph backend. Custom Three.js/React 19 rendering engine, Docker-sandboxed execution with human-in-the-loop approval, and a Redis/Qdrant/Neo4j memory layer.

Tech: *Python, FastAPI, LangGraph, Three.js, React 19, Docker, Redis, Qdrant, Neo4j*

Brain Nexus — Knowledge Graph Visualizer github.com/loisekk/brain-nexus

WebGL knowledge-graph visualizer (Sigma.js, React 19) for 60fps exploration of 76,539 nodes / 269,962 edges across 67 merged projects, with a LangChain ReAct assistant (7 custom Graph RAG tools) for natural-language codebase queries and Leiden/ForceAtlas2 graph clustering.

Tech: *Python, LangChain, Sigma.js, React 19, Graphology*

Open Source Contribution

Contributor — opencode Jul 2026 – Present

TypeScript AI coding agent (Turborepo/Bun/SST monorepo) — fixed session-timeline rendering and null session-archive handling.

Contributor — f1-race-replay Jun 2026 – Present

F1 telemetry replay tool (FastF1 API, Arcade). Built a live FIA Race Control feed window, persistent tyre-strategy tracking across sessions, and removed hardcoded paths for public safety.

Skills

Tools: Python, FastAPI, LangChain, LangGraph, scikit-learn, XGBoost, Docker, PostgreSQL, Git & GitHub

Soft Skills: [fill — e.g. Communication, Leadership, Time Management]

Certificates

Ethics in the Age of Generative AI — LinkedIn Learning 07/2026 – Present

What Is Generative AI? — LinkedIn 05/2026 – Present

Introduction to Modern AI — Cisco 03/2026 – Present

Oracle Fusion AI Agent Studio — Certified Foundations Associate (Rel 1) 03/2026 – Present

Python with Data Science — Sheryians Coding School 11/2025 – 08/2026