

AMEYA VINAYAK KULKARNI

Information Technology, TCET, Mumbai University

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ACADEMIC QUALIFICATIONS

Bachelor of Engineering (B.E.), Information Technology, Mumbai University, CGPA 9.21/10	2024 – 2028
Higher Secondary Certificate (H.S.C.), Maharashtra State Board, 73.71%	2024
Secondary School Certificate (S.S.C.), Maharashtra State Board	2022

COURSEWORK / SKILLS

- **Languages:** Python
- **Database:** MySQL
- **Backend & APIs:** Flask, FastAPI, REST APIs, LLM APIs (OpenAI, Anthropic)
- **Data & Analysis:** Pandas, NumPy, Matplotlib, Streamlit
- **Tools & Platforms:** Git, GitHub, PyPI, Render, Netlify, Streamlit Cloud, MCP Server Integration

PROJECTS

- Mustel** – Python CLI & MCP Server | pypi.org/project/mustel | mustel.vercel.app 2025 – 2026
- Open source Python CLI and MCP server on PyPI with 2,100+ downloads, providing deterministic static analysis for AI coding agents such as Cursor, Claude Code, and Windsurf
 - Co-developed a rebuild of the scanning pipeline that added a codebase mapping command and expanded rule coverage to 26 core packages and frameworks, measuring a 64.9% reduction in output tokens and a 34.4% reduction in context tokens using tiktoken based benchmarks
- Driftwood** – Monte Carlo Risk Engine | driftwood-docs.vercel.app | github.com/Ameya79/Driftwood 2026
- Built a stateless FastAPI backend that simulates stock price paths using Geometric Brownian Motion, returning up to 1,000 vectorized NumPy simulation paths per request, paired with a Next.js frontend charting the 10th, 50th, and 90th percentile price envelopes
 - Deployed the stack with Docker Compose behind Nginx, applying layered rate limiting at the proxy and API level to protect the public endpoint from abuse
- Rollit** – Rolling Window Statistics for NumPy | pypi.org/project/rollit | rollit-website.vercel.app 2025
- Published a zero dependency Python package on PyPI that computes rolling mean, sum, standard deviation, min, max, z score, and normalization on NumPy arrays using memory safe stride tricks instead of pandas
 - Reduced rolling mean computation on a 1 million element array from roughly 500ms with a manual Python loop to under 10ms, with input validation and a min_periods option for handling incomplete windows
- Lazy Footers** – FastAPI Bulk Document Footer Tool | Live, about 100 weekly users 2025
- FastAPI service for bulk PDF and DOCX footer stamping built for college students, handling up to 10 concurrent uploads with per page or per section editing and ZIP or individual download output

INTERNSHIP

- AirDawg Labs (Snorkel AI / Project Terminus)** | AI Systems Evaluation Intern, Benchmark Task Reviewer & Submitter Jun 2026 – Present
- Reviewed AI coding agent benchmark tasks for instruction clarity, test alignment, rubric quality, metadata correctness, Docker and base image compliance, and solution or test leakage risk
 - Evaluated full task submissions by inspecting zipped task environments, verifier reports, Dockerfiles, task.toml files, instructions, tests, rubrics, and oracle solutions to make accept or needs revision decisions, and wrote actionable reviewer feedback for blockers and required revisions
 - Started as a task submitter, creating and revising benchmark tasks, before moving into reviewer side evaluation; extended for a second month based on performance
- CoreLayer Labs Pvt. Ltd. (Review.AI)** | Research Analyst to Associate Data Analyst Intern Oct 2024 – Feb 2025
- Built an LLM powered product page scraper and report generator that cut manual review time from 4 hours to 1 hour (75% reduction), deployed in Review.AI's product pipeline
 - Built a real time Streamlit dashboard integrated with Google Sheets to auto track intern workload and review completion across the team
 - Researched and documented 50+ AI tools with structured evaluations used as internal product reference

CO/EXTRA-CURRICULAR ACTIVITIES

- **The Free University (Founder):** built and deployed a free courses aggregator at thefreeuniversity.space, grown to 90,000+ lifetime visits via SEO, LinkedIn page at 1,000+ followers
- **Mumbai Hacks 2025:** built LifeLink, an AI assisted organ donation platform, qualified for Round 2 (offline) of India's largest agentic AI hackathon, HealthTech track
- **Problem Setter, Shastra Coding Club, TCET:** designs and validates test cases for T&P placement coding assessments

HOBBIES

- Running: active road runner, creates running related content for social media
- Football: follows the sport closely with interest in jersey culture and match commentary
- Building open source tools and publishing them for real world use