

Aniket Hemant Murkutkar

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EDUCATION

State University of New York at Buffalo (3.42)

Master of Science, Computer Science and Engineering: AI/ML Specialization.

Relevant Coursework: Algorithms, Machine Learning, Deep Learning, Pattern Recognition, CV

NY, USA

Aug 2025 - Dec 2026

University of Mumbai (3.4)

Bachelor of Engineering in Computer Science

Mumbai, India

August 2021 - May 2025

EXPERIENCE

AI Trainer – Coding Agent Evaluation

May 2026 – Present

Handshake AI, Remote

- Designed **30+** adversarial command-line evaluations featuring complex, multi-step tasks in **WSL** and **tmux**, successfully identifying and documenting **14** critical limitations in frontier AI coding agents in the period of 2 months.
- Wrote domain-specific prompts for **Panda3D** and **Solar3D** engines to generate and refine functional game models, demonstrating advanced prompt engineering for specialized software environments achieving **80%** learnability rate while understanding the logical working of 2D and 3D world aspects.
- Evaluating and iteratively revising hundreds of LLM outputs to produce high-quality annotated data, directly improving the models' autonomous reasoning and code execution across diverse terminal exploration environments.

Web Developer Intern

Dec 2023 – Feb 2024

SmowCode, Mumbai, India

- Led the migration of SmowCode's public-facing homepage from WordPress to a **React** and **Next.js** stack, redesigning the UI and page structure to reduce page load time by **25%** while modernizing the site's visual identity.
- Implemented SEO-optimized, responsive components using Next.js routing, server-side rendering, and dynamic metadata management, increasing organic search traffic by **15%** and improving average page ranking within two months of deployment.
- Collaborated with designers and founders to refine the homepage based on usability feedback, reducing **bounce rate by 20%**.

Backend API Developer Intern

May 2023 – Jul 2023

Workflowed Solutions Pvt. Ltd., Mumbai, India

- Built secure RESTful Web APIs using the .NET framework, successfully processing **10,000+** sensitive financial transactions daily while accelerating internal data processing speeds by **30%**.
- Extended backend systems by architecting and developing new RESTful **API** modules for specific business use cases, improving extensibility and accelerating internal data processing while maintaining backward compatibility.
- Integrated authentication and authorization mechanisms to enforce secure access to financial data across services.
- Tested and documented **APIs** to ensure reliability, correctness, and ease of integration with frontend and internal tools.

PROJECTS

Safety Knights Web Development (CSE 611)

- Led the full-stack development of a job board using the MEAN stack, building an administrative dashboard to streamline content and user tracking across **500+** active job listings and **4,000+** registered users.
- Built modular **Angular** components with state-driven UI logic to support real-time job creation, search, and tracking features.
- Designed a normalized **MongoDB** schema with indexed queries, reducing data retrieval latency by **40%**.
- Implemented secure backend practices including middleware validation, role-based access control, and protected API routes.

DocuMind: Scalable Retrieval-Augmented Knowledge Assistant

- Designed and implemented a Retrieval-Augmented Generation (**RAG**) pipeline integrating document chunking, embedding generation, and vector similarity search using **FAISS** and **Claude**.
- Engineered a modular retrieval system with metadata filtering and hybrid search (semantic and keyword-based), achieving **92%** accuracy in contextual grounding across a multi-document knowledge base.
- Built a **FastAPI** backend exposing REST endpoints for document ingestion and query handling.
- Containerized the service using **Docker** with caching to reduce inference latency by **50ms** and decrease API costs by **20%**.

SKILLS

Programming & Web: Python, JavaScript/TypeScript, C/C++, C# (.NET), SQL, Bash/Shell, LaTeX

Web Frameworks & Libraries: React.js, Next.js, Angular, Node.js, Express.js, Flask, Bootstrap, pandas, NumPy, Matplotlib, scikit-learn, TensorFlow, Panda3D, Solar3D

Machine Learning & AI: PyTorch, XGBoost, Hugging Face Transformers, LLM Fine-Tuning, Retrieval-Augmented Generation (RAG), CNNs, NLP, Feature Engineering, Model Optimization (Optuna)

Tools & Platforms: AWS, Google Cloud Platform (GCP), Docker, Git/GitHub, WSL, tmux