

DHARMIT KUNAL SHAH

AI Builder | Founder | Research Enthusiast | Editor-in-Chief

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SUMMARY

Computer Science undergraduate at Symbiosis Institute of Technology with strong interests in Artificial Intelligence, Machine Learning, Multi-Agent Systems, Generative AI, and Applied AI Research. Experienced in developing research-oriented AI systems involving literature review automation, hypothesis generation, retrieval-augmented generation (RAG), agentic workflows, and AI evaluation. Currently contributing to institutional AI initiatives including Symbi-GPT under faculty mentorship while pursuing research in AI Safety, LLM Bias Mitigation, and Post-Quantum Cryptography.

EXPERIENCE

AI Developer Intern

Scaler School of Technology (YIIC 4.0)

Remote

- Selected into a competitive internship cohort focused on AI, software development, and mentorship.
- Earned Internship Certificate.

Generative AI Intern

Prodigy InfoTech

Remote

- Worked on LLMs, Prompt Engineering, Transformers, AI workflows, Python and Machine Learning.
- Received Outstanding Remarks, Certificate of Completion, and Letter of Recommendation.

RESEARCH EXPERIENCE

Research Contributor – Symbi-GPT (Ongoing)

Symbiosis Institute of Technology | Under Dr. Ketan Kotecha

- Contributing to the research and development of Symbi-GPT, an institutional AI assistant for Symbiosis Institute of Technology, Pune
- Designing and implementing Retrieval-Augmented Generation (RAG) pipelines for knowledge-grounded responses.
- Working on institutional knowledge retrieval, data integration, and LLM/SLM-powered query handling across academic and administrative domains.
- Evaluating response quality, retrieval effectiveness, and system performance to improve user experience and reliability.
- Tech Stack: Python, FastAPI, RAG, Vector Databases, LangChain/LlamaIndex, PostgreSQL, LLMs/SLMs.

PROJECTS

ScholarMind

- Built a multi-agent AI Research System that automates academic literature review, research gap identification, hypothesis generation, experiment design, and manuscript drafting.
- Engineered a LangGraph-based orchestration pipeline integrating six specialized research agents, a self-healing SQLite/Vector database architecture, and an interactive React Flow knowledge graph to enable explainable research intelligence and long-term project memory.
- Designed AI research workflows inspired by academic research methodologies and implemented evaluation pipelines for validating agent outputs and research recommendations.
- Tech Stack:** Python, FastAPI, LangGraph, SQLite, ChromaDB, Google Gemini, Ollama, Next.js 15, React Flow, Tailwind CSS
- GitHub:** [dkshah25/ScholarMind](#)

MarketMind

- Developed a local-first AI-powered financial intelligence platform that simulates an institutional investment research team through ten specialized analytical agents. Implemented dynamic DCF/WACC valuation models, an autonomous investment committee, prediction accountability ledger, portfolio analytics engine, and continuous learning framework that recalibrates agent confidence using historical performance outcomes.
- Tech Stack:** Python, FastAPI, LangGraph, Ollama, Llama 3, Qwen 2.5, SQLite, Next.js 15, React Flow, Recharts, Tailwind CSS
- GitHub:** [dkshah25/MarketMind](#)

Symbi Club Control (Ongoing)

- Contributing to the development of **Symbi Club Control**, a centralized club management platform for **Symbiosis Institute of Technology, Pune**, under the guidance of **Dr. Deepali Vora**.
- Building an LMS-style system to manage clubs, memberships, leadership hierarchies, approvals, events, and role-based access across the institute.
- Developing scalable backend services and data workflows using Firebase and Supabase to streamline club administration and governance.
- Tech Stack (Subject to change):** Firebase, Supabase, PostgreSQL, React, Next.js, TypeScript, REST APIs, Authentication & Role-Based Access Control (RBAC).

Virtual Museum Guide

- Built an AI-powered Virtual Museum Guide designed to make cultural heritage more immersive and personalized. The system leverages LLMs (Gemini) with Retrieval-

- Augmented Generation (RAG) to deliver context-aware historical insights. It supports multiple AI personas with memory to enhance user interaction and engagement.
- Selected to **grand-finale** of **Google Student Ambassador Hackathon 2026** with Team **TensorSmiths**.
- **Tech Stack:** FastAPI, React.js, Next.js, Gemini API, RAG, ChromaDB, SQLite, Vercel.
- **GitHub:** [dkshah25/museum_gsa](https://github.com/dkshah25/museum_gsa)

PhishGuard

- Built a machine learning-based phishing detection system with a Chrome Extension and Python backend for real-time URL analysis.
- Trained Scikit-learn models on OpenPhish and Kaggle datasets to classify malicious websites.
- Secured **3rd Place** with Team **TensorSmiths** at the **Ideation Summit (CodeX, SIT Pune)**.
- **Tech Stack:** JavaScript, Chrome Extension API, Manifest V3, Python, Scikit-learn, HTML, CSS, Machine Learning.
- **GitHub:** [dkshah25/Phishguard-CODEX](https://github.com/dkshah25/Phishguard-CODEX)

EDUCATION

B.Tech CSE (2025-2029)
Symbiosis Institute of Technology

SGPA : 7.75 (Till Semester 1)

CERTIFICATIONS

Generative AI Engineering with Transformers & LLMs

Generative AI Essentials

Machine Learning for All

INVOLVEMENT

Editor-in-Chief

Symbi-Sains

- Leading the CSE department magazine.

Research & Technical Team Member

Symbiosis Quantum Club

Founder & CEO

DKVerse

- AI tools and educational technology initiatives.

Founder

SkillForge

- Student growth and technology learning initiative.

Programming Community Member

CodeX SIT

PUBLICATIONS

Bias in LLMs: A Prompt-Based Evaluation & Mitigation Framework (Manuscript Under Preparation)

Post-Quantum Cryptography for Secure AI Systems (Manuscript Under Preparation)

SKILLS

Languages: Python, C++, C

AI/ML: Machine Learning, Generative AI, LLMs, RAG, Prompt Engineering, AI Evaluation

Frameworks & Tools: FastAPI, React, Next.js, LangGraph, ChromaDB, SQLite, Ollama

Research Areas: AI Safety, Multi-Agent Systems, Post-Quantum Cryptography

Hardware: Arduino, ESP32, IoT, Sensors & Actuators, Embedded Prototyping

Research: Literature Review, Research Methodology, Scientific Writing, Experimental Design, AI Evaluation, Benchmarking, Data Analysis