KRISHNA KUMAR K. NAICKER

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PROFESSIONAL SUMMARY

Aspiring AI/ML engineer specializing in deep learning, RAG systems, and scalable full-stack deployment. Proven leadership as hackathon team lead (SIH 2025 Top-45, HackRx 6.0 Top-250); adept in building production-grade ML applications with TensorFlow, PyTorch, and LangChain; passionate about Agentic AI and applied data science innovation.

EDUCATION

P.E.S Modern College of Engineering (SPPU) **Pune, India**
Bachelor of Engineering, Artificial Intelligence and Data Science Aug 2023 – Jun 2027
Current CGPA (Sem 1st–4th): 9.29
- Year 1: 9.34/10 | Year 2: 9.25/10

TSSM's Cygnet Public School **Pune, India**
CBSE Class 10, Percentage: 93.8% Jun 2008 – Aug 2021

TECHNICAL SKILLS

- **Programming:** Python, C++, JavaScript
- **AI/ML:** TensorFlow, PyTorch, scikit-learn, XGBoost, Random Forest, AutoML
- **Frameworks & Tools:** Streamlit, Node.js, React, LangChain, Gradio, Docker, FastAPI, Git, Jupyter
- **Database:** MongoDB, MySQL

PROJECTS

MineX – LCA Assessment Platform (SIH 2025) | Sep 2025 – Present
- AI-driven platform for environmental sustainability analysis using AutoML and predictive modeling in metallurgy operations.
- Spearheading ML pipeline development and data modeling workflows for life cycle assessment metrics.
- Integrating backend automation and AI analytics; shortlisted (Top 45) in internal SIH 2025.

Rapidoc – AI-Driven RAG Document Intelligence | Aug 2025
- Web-based RAG system showcasing intelligent document retrieval and AI-powered content generation.
- Engineered advanced retrieval augmented generation pipeline for dynamic information extraction.
- Live: https://krishnanaicker.github.io/Rapidoc/

HealthEase – AI Driven Healthcare Innovation | Apr 2025
- Comprehensive healthcare platform integrating AI research summarization, symptom analysis, and wellness tracking.
- Implemented LangChain-powered RAG pipeline and Streamlit-based interface connected with MongoDB backend.
- Live Demo: https://healthease.streamlit.app

VERBALIZE – Lip Reader (Team Lead & Collaborator) | Jul 2024
- Vision-based deep learning system enabling silent speech recognition through visual lip movement analysis.
- Built and trained TensorFlow model; optimized accuracy with curated datasets.
- GitHub Repo: https://github.com/KrishnaNaicker/VERBALIZE_Lip-Reader

QuizSpark – Adaptive Quiz Application | May 2025
- Adaptive quiz platform leveraging AI to personalize question difficulty and enhance learning engagement.
- Developed dynamic frontend with real-time feedback, progress tracking, and performance analytics.
- Live Demo: https://quiz-spark-eight.vercel.app

ACHIEVEMENTS & RECOGNITION

- SIH Internal Hackathon 2025 (Prostart): Top-45 (25th Rank), Team Lead
- Ranked 236th at National Level in HackRx 6.0 (Bajaj Finserv)
- Ranked 23rd in GeeksVishwa hosted by VIIT

Professional Development

- NVIDIA – Intro to Deep Learning & Agentic RAG (ongoing).
- Full Stack Web Development Bootcamp By Dr. Angela Yu.

Core Strengths

- **Leadership & Collaboration:** Team lead for SIH 2025 and multiple PBL projects; coordinated cross-functional teams.
- **Problem-Solving & Adaptability:** Rapid learning of emerging tech (Streamlit, LangChain, RAG systems).
- **Communication:** Strong technical presentation and documentation skills
- **Time Management:** Consistently met project deadlines while balancing coursework and team responsibilities.
- **Learning Mindset:** Driven to expand expertise in AI, full stack development, and sustainable innovation.