



BHOSALE RUTURAJ PRADEEP

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EDUCATION

Course	Year	College / University	CGPA / %
B.Tech (Computer Science and Engineering)	2026	Netaji Subhas University of Technology	7.68
CBSE (Class XII)	2022	Army Public School Khadki	93.00
CBSE (Class X)	2020	Army Public School Khadki	94.20

INTERNSHIP

- **AI: Transformative Learning with TechSaksham | AICTE | Virtual** **Jan 2025 - Feb 2025**
 - Built a health assistant chatbot using Python, LangChain, and Pinecone vector database.
 - Implemented conversational memory and metadata-filtered search to reduce latency by 30%.
 - Developed dynamic query routing to direct inputs between general and medical databases.
 - Deployed as an interactive Streamlit app with robust safety and inputs guardrails.

PROJECTS

- **Production-Grade Cache-Aware RAG Engine**
 - Developed a role-based, compliance-aware RAG pipeline with document access-control policies.
 - Implemented cache-aware prompt formatting to optimize token consumption and reduce token costs.
 - Built safety gates to detect prompt injections and automated output compliance checks.
- **Automated RAG Evaluation**
 - Built a Python evaluation framework to benchmark RAG pipelines using Precision, Recall, MRR, and NDCG.
 - Implemented model-graded evaluation (Faithfulness, Relevance) using LLM-judge design.
 - Designed a testing harness comparing different search algorithms to improve retrieval.

POSITIONS OF RESPONSIBILITY

- **Logistic Team | Moksha** **Mar 2023 - Mar 2023**
 - Organized Moksha College-Fest, coordinating vendor logistics and event scheduling.
- **Tech Lead | Dhirah Society** **Apr 2023 - Apr 2024**
 - Led frontend development of the society website using React and mentored 10+ juniors.

EXTRA-CURRICULAR ACTIVITIES AND ACHIEVEMENTS

- Yoga - Team Mudrakala , District and National Level
- WorldQuant - Alphathon (Silver)
- Science, technology and society (Gold) instructed by IIT Guwahati
- NSUT - Techweek (2nd RunnerUp)

HACKATHONS

- **Blocks AI Hackathon — 3rd Prize (Solo)** **2026**
 - Built an autonomous astronomical AI Agent using LangChain and FastAPI to query NASA APIs.
 - Integrated semantic verification gates and execution guardrails to guarantee query safety.

OTHER INFORMATION

- Programming Languages: C++ | Python (FastAPI, Asyncio, Pandas, NumPy) | SQL
- Databases & Vector Stores: SQLite | Pinecone | pgvector
- Machine Learning & GenAI: Scikit-learn | LangChain | RAG | LLM Evaluation | Agents
- CS Fundamentals: Data Structures & Algorithms | Operating Systems | DBMS