

H G Vasudeva

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Education

Ramaiah Institute of Technology, Bengaluru

Dec 2022 – May 2026

Bachelor of Technology in Artificial Intelligence and Machine Learning

- GPA: 9.46/10 (as of Apr 2025)
- Technical Clubs: Developers Student Club (Core), TensorAI (Core)
- Volunteering: NSS (Core Leader), U&I (Volunteer), RIT TechFest (Student Coordinator)

Experience

Memory Content and Swap Operation Analytics

Sept 2024 – Jun 2025

Worklet Intern, Samsung PRISM — Samsung R&D Institute, Bengaluru

Mentor: Vaisakh P S

vaisakh.ps@samsung.com

- Developed tools using eBPF, C and Python to analyze Linux anonymous memory and swap operations
- Performed page-level analysis for memory content duplication and swap-in/swap-out cycles
- Generated timeline-based representations of memory usage from multiple snapshots
- Created a workflow for efficient testing and removal of duplicates using a hybrid fuzzy-hierarchical model

Technical Skills

Languages: Python, C/C++, Java, MySQL, HTML/CSS, JavaScript

Techniques: Machine Learning, Natural Language Processing, Data Analytics, Image Processing, RAG-LLM, Robotic Process Automation

Tools: PowerBI, VS Code, Jupyter Notebook, Arduino IDE, Selenium, Roboflow, Apache Mahout, Apache Hadoop, Apache Spark, UI Path

Achievements

- 1st Runner-up, Unisys Innovation Program Year 15, 2024
- 1st Prize, Protatva Project Exhibition 2024 (RVIT, Bengaluru)
- Best IoT/AI Implementation, Ambition Hackathon (BIT, Bengaluru)
- Participant, E-Yantra Competition 2023 (IIT Bombay)
- Participant, Smart India Hackathon 2024

Projects

Enhanced Solution for Waste Management Along With a Novel Litter Surveillance System using OpenCV, YOLO and IoT Techniques

Jan 2024 – May 2024

- **Reference:** [Github Repo](#) **Patent Published:** App No. 202441050632, Published on 05/07/2024

Forecasting Future Water Requirements and Assessing Storage Capacities in Reservoirs

Jan 2024 – May 2024

- **Reference:** [Github Repo](#) **Patent Published:** App No. 202441050632, Published on 05/07/2024

Dark-pattern Identifier Using Machine Learning and CNNs

Jan 2023 – Feb 2023

- **Reference:** [GitHub Repo](#)