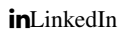


# ATHRVA KULKARNI



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## EDUCATION

**Bachelor of Technology in Computer Science Engineering (Artificial Intelligence)**  
BRAC'T'S Vishwakarma Institute Of Information Technology, Pune, Maharashtra

Nov 2022 - Present  
CGPA: 8.74

## TECHNICAL SKILLS

**Programming Languages:** Java, Python, JavaScript  
**Web Development:** HTML, CSS, JavaScript, React.js, Next.js, WordPress  
**AI Machine Learning:** Machine Learning Algorithms, Generative AI, LLMs, Computer Vision, Deep Learning, NLP  
**Robotics & ROS2:** ROS2, Gazebo, RViz2, Linux OS  
**Databases:** Supabase PostgreSQL, Neo4j (Graph Database), Vector Databases  
**Tools:** Docker, Git/GitHub, FastAPI, Strapi, Streamlit, BeautifulSoup4, LangChain

## EXPERIENCE

**AI Engineer Intern**  
Tejis.ai

Jan 2025 - Present

- Developed Generative AI solutions including LLM fine-tuning and autonomous agents.
- Built and deployed REST APIs using FastAPI for scalable model serving.
- Integrated Graph Databases (Neo4j) and Vector Databases for efficient data retrieval.
- Implemented unit testing and pre-commit hooks to ensure robust deployment pipelines.
- Collaborated cross-functionally with product and ML teams to deploy solutions in production environments.

**Data Science Intern**  
AlgoAnalytics

Apr 2024 - Oct 2024

- Developed YOLO-based object detection systems for real-time surveillance and anomaly detection.
- Tuned and evaluated machine learning models to maximize performance metrics.
- Implemented Retrieval-Augmented Generation (RAG) systems for material manual analysis.

**Completion Letter:** [View Here](#)

## PROJECTS

**Autonomous Object Tracking and Picking Robot**

- Designed ROS2 architecture for autonomous ball tracking and picking in ABU Robocon 2024.
- Implemented object detection using YOLOv5/YOLOv8 on a custom dataset for multi-color ball detection.
- Developed decision-making algorithms for silo tracking and navigation.

**Technologies:** ROS2, OpenCV, YOLOv5, YOLOv8

**Newgate – AI-Driven Research Platform**

- Built an AI platform for automated research report generation leveraging LLMs and web scraping.
- Integrated Supabase PostgreSQL for structured organizational data storage.

**Technologies:** Streamlit, Supabase, Groq, SerpAPI, NewsAPI, BeautifulSoup4, LangChain

**Sanjivani – AI-Powered Healthcare Platform**

- Developed a multilingual healthcare chatbot with appointment booking and Zoom integration.
- Built AI models for disease prediction (skin disease, brain tumor, X-ray analysis, diabetes assessment).
- Integrated virtual assistant with data visualization, analytics, and digital prescriptions.

**Technologies:** Groq, OCR, Strapi, FastAPI, Next.js, Node.js, REST APIs

## ACHIEVEMENTS

- Finalist, DD ROBOCON 2024
  - Finalist, E-Yantra 2024-25
  - Published Research Paper at ICCUBEA 2024
  - Developed multiple live software and websites for industry projects
- Certifications:** Machine Learning A-Z™: AI, Python & R + ChatGPT Bonus [2023]