

Yash Ganar

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Skills

Programming & AI: Python · Machine Learning · Deep Learning · Reinforcement Learning · Natural Language Processing (NLP) · Generative AI

Applied Domains: · Research and Analysis

Communication & Strategy: Public Speaking · Presentation Skills · Content Strategy · Problem Solving

Projects and Research

Research Paper: Autonomous Intersection Management with RL Algorithms

Article link /

- Developed autonomous intersection management algorithms using Reinforcement Learning (RL)
- Proposed two algorithms: Proximal Policy Optimization (PPO) and Advantage Actor-Critic (A2C)
- Designed reward functions for collision reduction and high throughput
- Evaluated performance across multiple metrics like collision avoidance, speed, and travel time
- Established a comparison to aid in selecting the most suitable algorithm for traffic management

Local RAG

Project Link /

- Built a local Retrieval-Augmented Generation (RAG) system for querying user-provided documents using semantic search
- Implemented document ingestion, text chunking, embedding generation, vector retrieval, and context-aware response generation
- Designed the pipeline to retrieve relevant document context before generating responses, reducing reliance on model-only knowledge
- Enabled private, local document querying without requiring documents to be sent to external services
- Tools Used: TypeScript, React, Node.js, Python, Vector Database, LLM APIs

Work Experience

Data Quality Analyst, VIP (Vermont Information Processing) – Thane, Maharashtra

May 2026 – Present

- Analyze and validate datasets to identify inconsistencies, errors, and data quality issues
- Perform data quality checks and investigate discrepancies across datasets to ensure data accuracy and integrity
- Support data cleaning, verification, and validation processes to improve overall data reliability
- Collaborate with internal teams to investigate and resolve data-related issues
- Develop expertise in data quality standards, validation processes, and analytical workflows

Product Development Intern, Algotulls – Mumbai, Maharashtra

July 2025 – January 2026

- Redesigned the AlgoBulls interface to introduce features that help clients make faster investment decisions
- Contributed to a major product revamp, including new strategy filters and an improved interface
- Collaborated with cross-functional teams to enhance usability and client satisfaction

Business Development Intern, Algotulls – Mumbai, Maharashtra

Jan 2025 – July 2025

- Handled 1000+ inbound calls, improving sales conversion rate by 20% and accelerating lead onboarding
- Contributed to generating 2x ROI during the internship period
- Created blogs, designed marketing strategies, and supported video editing for company content
- Designed YouTube thumbnails and posters to strengthen the company's digital presence

Research Intern, IITRAM – Ahmedabad, Gujarat

Jun 2024 – July 2024

- Conducted comparative analysis of algorithms in highway and intersection environments
- Evaluated performance based on rewards, collisions, and average speed in each environment
- Identified the best-performing algorithm for specific traffic scenarios

- Tools Used: Python, Pytorch, HighwayEnv

Education and Certifications

Universal College of Engineering , BE in Computer Science, Specialized in Artificial Intelligence and Machine Learning CGPA: 7.71	Dec 2021 – Aug 2025
Coursera , <u>GOOGLE UX DESIGN</u>	May 2025 – Nov 2025
Scribma , <u>PYTHON BASICS</u>	Feb 2026
Scribma , <u>JAVASCRIPT</u>	Feb 2026
Scribma , <u>ES6 JAVASCRIPT</u>	Feb 2026
Scribma , <u>EXPRESS JS</u>	Mar 2026
Scribma , <u>SQL</u>	Apr 2026

Achievements and Extracurricular Experience

SIH Finalist , Smart India Hackathon 2024	Dec 2024
• Designed 10+ unique maps for the game "Sansthaein aur Sanvidhan," integrating engaging storylines to captivate users • Contributed to a successful project that combined interactive learning with gaming elements to promote awareness about Indian governance and constitution	
Vice President , Rotaract Club UCOE – Mumbai, Maharashtra	Jun 2022 – July 2024
• Led the club to receive 3 ACERS, the most prestigious award for any Rotaract club, a historic achievement • Secured 10 nominations and achieved a social media reach of 74k views, surpassing all previous records • Edited videos that garnered 36k views, contributing 50% of the total views for the club • Developed skills in team building, teamwork, and mentorship; mentored members to achieve their goals	