

ROHIT A S

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EDUCATION

VIT Chennai

B.Tech CSE (AI & ML)
Aug 2023 - present (Exp. May 2027)
CGPA: 8.35 / 10.0

IIT Madras

B.S. Data Science and Applications
Sep 2024 - present
CGPA: 8.67 / 10.0

SKILLS

Languages

Python (Advanced)
JavaScript, TypeScript (Proficient)
Java, C, C++ (Basic)
SQL, Bash

Web Frameworks/Libraries

React, Next.js, Vite
FastAPI, Flask, Node.js
MongoDB, PostgreSQL
TailwindCSS

Cloud/DevOps

Linux Administration
Google Cloud (GCP)
AWS (Basic)
Docker, Kubernetes
Cloudflare Zero Trust

AI/ML

PyTorch, TensorFlow
RL: tf-agents, stable-baselines3
Scikit-Learn, Pandas, NumPy

Non-Technical

Agile Concepts
Team Collaboration
Project Management

Other Tools

Adobe Creative Suite
Figma (UI/UX Design)
Git, GitHub Actions CI/CD
Postman

LINKS

[GitHub: rrex971](https://github.com/rrex971)
[LinkedIn: rohitas727](https://linkedin.com/in/rohitas727)

EXPERIENCE

atmosol

Remote
June 2025 – July 2025

- Designed a **Reinforcement Learning** framework using stable-baselines3 (SAC Agent) to optimize Return on Ad Spend (ROAS) for PPC ad campaigns, achieving **22% improvement** over naive allocation baseline.
- Modeled an **Offline Simulation Environment** to train agents on simulated data to mitigate financial risks associated with live exploration.
- Implemented data pipelines to preprocess high-dimensional ad-spend metrics into state-action pairs for the RL agent.

PROJECTS

RSERV (Autonomous Rover)

[Repo Link](#)

Python, ESP32, PyTorch (stable-baselines3), PPO

- Engineered a robotic rover utilizing **Proximal Policy Optimization (PPO)** for navigation in unmapped environments.
- Architected a distributed system offloading computer vision and RL inference from ESP32-CAM to base stations over wireless links.
- Implemented real-time optimized video processing pipelines for obstacle detection and reward shaping under constrained resources.

PokéHunt (Campus Event Web Platform)

[Repo Link](#)

GCP (Cloud Run, SQL), Next.js, TailwindCSS

- Built a serverless platform enabling 200+ students to scan QR codes and capture virtual Pokémons across campus in real-time.
- Deployed on **Google Cloud Platform** using Cloud Run for auto-scaling with load balancing and Cloud SQL for relational data storage.
- Reduced cold-start latency to ensure sub-1s response times during traffic spikes.

Finstox (Algo-Trading Dashboard)

[Repo Link](#)

React, FastAPI, LSTM, Web Scraping

- Developed a full-stack dashboard for tracking Indian stock market securities using real-time and historical NSE data endpoints.
- Integrated a custom LSTM neural network to project 7-day price trends, served via a high-performance **FastAPI** backend.

MISCELLANEOUS

Home Lab Infrastructure

- Self-host and maintain a Linux home server (Arch Linux) running microservices securely exposed via **Cloudflare Zero Trust Tunnels**, achieving 99.5% uptime.
- Manage ZFS pool storage across multiple drives with redundancy, networking, and Docker containerization for self-hosted services.

Open Source Contributions (osu!)

- Contributed multiple bug fix PRs to "osu!" (popular rhythm game with 13K+ stars), gaining experience navigating a large-scale C# codebase.