ROHIT A S

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EDUCATION

VIT Chennai
B. Tech CSE (AI & ML)
Aug 2023 - present (Exp. May 2027)
CGPA: 8.36 / 10.0

IIT Madras
B.S. Data Science and Applications
Sep 2024 - present
CGPA: 7.4 / 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
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
LinkedIn: rohitas727

EXPERIENCE

Schneider Electric — Bangalore, Karnataka
Data Analyst Intern — *May 2026 – July 2026*

- Developed an internal Copilot prompt library using **Power Platform** (Power Apps and Power Automate), SharePoint, Office 365, Microsoft Teams, and SPFx web parts, with department-wide usage tracking.
- Built KPI dashboards and adoption-tracking landing pages in Power Apps, driving **40% improvement** in engagement visibility and usage monitoring.
- Automated telemetry collection, metric calculations, and scheduled data refreshes via Power Automate flows, ensuring data consistency and reliability.

atmosol — Remote
AI & ML Intern — *June 2025 – July 2025*

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

PROJECTS

Nextoc (Autonomous Paper-Trading System) — Repo Link
Python, PyTorch, Temporal Fusion Transformer, SQLite, Agentic LLM

- End-to-end architecture for Nifty 500 equities, spanning daily market data, feature engineering, forecasting, ranking, and simulated trades.
- Segment adapters group stocks by trading volume and sector, extending sector-specific Temporal Fusion Transformers with market-feedback updates.
- Agentic LLM judge that retrieves current financial news, evaluates shortlisted equities, and combines cited rationale with liquidity-aware model scores.

RSERV (Autonomous Exploration Rover) — Repo Link
Python, ESP32, PyTorch (stable-baselines3), PPO

- Built a rover using **Proximal Policy Optimization (PPO)** for autonomous navigation and target detection.
- Offloaded vision and RL inference from ESP32 to wireless edge base stations, federating the learning process when used in a fleet.
- Used real-time video and sensor streams for reward shaping under tight hardware limits.

re:Pad (Magnetic Hall Effect Game Controller) — Repo Link
C, RP2040, KiCad, Electron, Hardware Integration

- Built a custom 3-key Hall-effect based controller with modified QMK firmware and Electron based configurator.
- Designed a PCB in KiCad with RP2040 base and a 3D printed enclosure.
- Engineered millisecond-level polling firmware with actuation mapped to magnetic field strength.

Finstox (Paper-Trading Dashboard) — Repo Link
React, FastAPI, LSTM, Web Scraping, Explainable AI (SHAP, LIME)

- Built a full-stack trading dashboard for Indian equities using NSE market data.
- Served 7-day forecasts from a custom LSTM model architecture through FastAPI.
- Added SHAP and LIME explanations for indicator-level prediction transparency.

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.
- Notable PRs: (PR #23020, PR #35925).