

ATHEENDRE RAMESH

Full-Stack Developer · ML / RL Engineer · Bangalore, India

atheendreramesh@gmail.com | +91 73387 98666 | github.com/atheendre130505 | linkedin.com/in/atheendre-ramesh

Computer-science engineer who ships production-grade software and ML systems end to end — from a Spring Boot/React platform serving 500+ requests/min to deep-reinforcement-learning agents and applied-ML projects. Contributes to large open-source codebases including Apache Kafka, scikit-learn, and Apache DataFusion, and researches memory-augmented Transformers at IIT Tirupati.

SELECTED PROJECTS

StripeFlow — Payment Processing Platform *Java · Spring Boot · React/TS · AWS*

End-to-end enterprise payments platform: serverless architecture handling 500+ API requests/min, React/TypeScript front end, and full CI/CD & infrastructure-as-code. github.com/atheendre130505/stripe-flow

PPO Dino Agent — Chrome Dino RL *Python · PyTorch · PPO · Playwright*

Proximal Policy Optimization agent for the Chrome Dino game, built as a successor to an earlier Dueling Double DQN agent. In active development toward a "Level 2" upgrade: live browser play via Playwright on chrome://dino with real-time pixel input and a policy-visualization overlay. github.com/atheendre130505/ppo-dinojump

VizDoom PPO Agent — Visual RL *Python · PyTorch · PPO · ViZDoom*

Proximal Policy Optimization agent trained on a ViZDoom scenario, learning combat and navigation policies directly from raw pixel/visual input. github.com/atheendre130505/vizdoom

Behavioral Classification — Kaggle *XGBoost · CatBoost · AutoGluon*

97.5% accuracy (top 5%) predicting personality type from behavioral data using stacked and boosted ensembles. github.com/atheendre130505/Kaggle_introvert-extrovert

OPEN-SOURCE CONTRIBUTIONS

- Apache Kafka — merged pull request to the distributed event-streaming core. PR #20778 (merged)
- scikit-learn — merged pull request and issues against the core ML library. PR #33197 (merged)
- Apache DataFusion — merged contribution to the Rust query engine. PR #18427 (merged)
- CogVLM (4k★) — fixed an edge case in bounding-box parsing in a widely-used vision-language model.
- CHAOSS Augur — merged pull request and issues for the open-source analytics project. PR #3608 (merged)

EXPERIENCE

Research Intern — IIT Tirupati (Prof. P.C. Deshmukh)

Jan 2024 – Present

Remote

Researching scalable associative-memory models and memory-augmented Transformers (modern Hopfield networks) for long-context NLP — neural retrieval, summarization, and document search.

Head of Volunteer Management — Robinhood Academy (NGO)

2023 – Present

Bangalore

Lead volunteer recruitment, coordination, and program delivery for the organization's education initiatives.

Freelance Developer — Independent

2023 – Present

Bangalore

Designed, built, and shipped production web applications for clients across the full stack.

EDUCATION

B.Sc. (Hons) Computer Science

Aug 2022 – 2027 (expected)

RV University, Bangalore · CGPA: 8.3

Machine Learning · Reinforcement Learning · NLP · Neural Networks · Probability · Calculus

IELTS Overall Band 8 · Listening 9 · Reading 8 · Speaking 8 · Writing 7

SKILLS

Languages Java · Python · TypeScript · JavaScript · SQL · C / C++

Backend & Web Spring Boot · Node.js · FastAPI · Flask · React · Next.js · Tailwind

Cloud & Data AWS · Docker · Kubernetes · Terraform · GitHub Actions · PostgreSQL · MongoDB · Redis

ML / AI PyTorch · TensorFlow · scikit-learn · XGBoost · Reinforcement Learning (PPO, DQN, CFR)

REFERENCES

Prof. P.C. Deshmukh — Professor, Physics, IIT Tirupati · pcd@iittp.ac.in

Prof. P.G. Bhat — Adjunct Professor, RV University · [recommendation letter available](#)

Deepak Koushik — Salesforce, Bengaluru · [linkedin.com/in/deepakkoushik](https://www.linkedin.com/in/deepakkoushik)