

Arun Jose

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Education

Computer Science and Engineering – B.Tech
College of Engineering Trivandrum
08/18 – 06/22 • CGPA: 8.65

Indian School Certificate
Loyola School Thiruvananthapuram
06/05 – 03/18 • ISC: 91.6%

Awards

ELK Contest

Wrote a prize-winning strategy
"Train a sequence of reporters"

EVOKE'19 Hackathon

Winner, out of 15+ teams
National level tech summit by IEDC
& IEEE SB TKMCE

Reboot Kerala Hackathon

2nd Runner Up, out of 30+ teams
State level Hackathon series by
the State Department of Higher
Education

Pass the Code

Winner, out of 15+ teams
State level tag-team competitive
coding competition by IEEE SB
GECBH, IEDC, and ISTE

AKCSSC Web Design Contest

1st Place
State level web design
competition by IEEE CSKS

Technical Skills

Experienced

Python, React + Native, JavaScript,
HTML, CSS

Comfortable

Tensorflow, PyTorch, Java, NextJS,
Firebase

Acquainted

C, C++, Assembly (x86), Octave

Experience

09/2022 – Present

Independent Alignment Researcher

- I'm working on technical projects related to interpretability, inner alignment, and related ideas, researching simulator theory, and learning more about current interpretability work.

08/2021 – 08/2022

ML Research Intern

Median Group

- Worked on conceptualizing a tool using GPT-3 for providing real-time conversational analysis as an external moderator with a lean against structuralism, posturing, and the like, keeping them rich in object-level content.
- Created an ML pipeline for analyzing and classifying segments from audio conversations into clusters based on their argumentative quality and structure.

01/2022 – 06/2022

AI Safety Camp

- Worked on Kyle and Laria's team to model alignment failures in GPT-3 and explore aspects of simulator theory.
- Primarily did conceptual work on gradient filtering, as well as testing GPT's ability to model increasingly complex values and recognize dangerous power-seeking strategies.

06/2022 – 07/2022

ML Alignment Theory Scholars – Deceptive AI

Stanford Existential Risks Initiative

- Took part in the training program and research sprint, mentored by Evan Hubinger.
- Wrote [this post](#) evaluating the conceptual and practical potential of generative models to accelerate alignment research.

Projects / Publications

Isolating Updates (Stable Baselines3) 🐙

Ongoing interpretability project on isolating an update signal corresponding to the high-level objective structure in a deep RL network.

Reward side-channels (SpinningUp) 🐙

Ongoing explorative work into empirical analysis of internal reward representation in reinforcement learning agents to better understand the mechanics of deceptive alignment. I work on project management as well, and oversee another developer working on this.

Metise (Preprint; Tensorflow) 🐙 🌐

Reversible colour-density image compression using conditional adversarial networks.

Calibration Game (React Native) 🐙 🌐

Android app operating under the rules of the credence calibration game. I handled design, development, and deployment.

Aumann's Game (NextJS, Node) 🐙

A multi-player web version of the calibration game. I handle design and code the front-end.

Veris (NextJS, React Native, Node) 🐙

Open-source web/app framework for college administration, deployed in CET.

Karma (HTML, PHP) 🐙

System to facilitate fast rescue during emergencies. 1st Place at national-level EVOKE'19 Hackathon.