

# Arjun Yadav

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## Education

**University of Manchester**, BSc(Hons) Computer Science w/ Industrial Experience Sep 2024 – Present

- **Societies and Committee Roles:** Website Developer at Makerspace Manchester, AI Vision Team Member at Manchester Stingers Motorsports, AI Officer at EA Manchester and GameDev Member & Events Officer at UniCS
- **Coursework:** First Year Team Project, Fundamentals of Computer Engineering, Fundamentals of Computer Architecture, Introduction to Programming and Mathematical Techniques for Computer Science

**Delhi Private School, Sharjah** Apr 2010 – Apr 2024

- **Activities and Leadership Roles:** Vice Head Boy for 2023-24, Coordinator - Environment for 2022-23, Student Moderator for Project: Unboxed, Co-Research Head at Youth Global Solutions Summit'23 and Decorated Member of Model United Nations Team
- **Subjects:** Physics, Chemistry, Mathematics, Computer Science and English
- **Awards:** AP Scholar with Distinction, Outstanding Student Leadership Award (unanimous vote), Best Council - Youth Global Solutions Summit'23 and First Place - Essay Writing Competition.

## Experience

**Partnerships Team**, Kickstart Global – London, United Kingdom Aug 2024 – Present

- Part of the team identifying and supporting top early-stage startup talent from universities across the UK.
- Engaged in establishing partnerships with societies and start-ups across the UK to find top talent.

**Deep Tech Intern**, Arrayah – Dubai, United Arab Emirates Aug 2024

- Collaborated to further develop Offline Streaming Systems, focusing on leveraging mesh networks for efficient data transfer in low-connectivity environments.
- Contributed to the technical and operational aspects of Feed Forward, a platform designed to streamline food donations by connecting households and businesses with those in need.
- Engaged with mentors and fellow innovators at Arrayah, gaining insights into product development, scalability strategies, and navigating challenges in deep tech startups.

**Member**, Horizon Omega – Montreal, Canada Apr 2024 – Aug 2024

- Collaborated on AI safety research, focusing on high-impact projects and fostering connections with experts in the field.
- Assisted in organizing and hosting the Provable AI Safety Seminars as part of the Horizon Events team.

**Partner**, Offline Streaming Systems – Dubai, United Arab Emirates Nov 2023 – Aug 2024

- Played a key role in developing offline streaming technology for regions with limited connectivity.
- Selected for Arrayah, a Middle East deep tech hacker space, and contributed to furthering the project through research and prototyping.

**Committee Member**, OptX UAE – Dubai, United Arab Emirates Jan 2023 – Aug 2024

- Volunteered at several major events, including our flagship event, “The Symposium”, Iftar distributions and UAE AID campaigns, where I supported event coordination, registration, and participant engagement.
- Contributed to the success of these events through meticulous planning, research, and collaboration with fellow committee members.

**Fellow**, AI Safety Fundamentals Feb 2024 – Jul 2024

- Completed AI Safety Alignment and Governance courses, gaining a foundation in AI ethics and alignment challenges.
- Applied learnings to real-world discussions and projects, deepening understanding of AI safety.

- Research Collaborator**, Dioptra Dec 2023 – Jul 2024
- Contributed to the development of GameBench, assessing strategic reasoning capabilities of large language models (LLMs) across nine distinct game environments.
  - Accepted into the Language Gamification Workshop 2024 at NeurIPS 2024.
- Co-Founder**, Effective Altruism UAE Dec 2022 – Jul 2024
- Co-founded and established the UAE's national chapter for Effective Altruism, leading initiatives to promote ethical and effective charitable actions.
  - Facilitated connections between EA AUS and EA NYUAD, helping to create a unified network for discussions on philanthropy and altruism.
- Intern**, Delhi Private School, Sharjah May 2024
- Assisted the Senior Wing Headmistress with a range of administrative tasks, ensuring smooth daily operations.
  - Contributed to social media management, content writing, and design projects, enhancing the school's online presence.
  - Provided web development support for various departments, improving the functionality and user experience of internal platforms.
- Developer**, ai-plans.com Dec 2023 – May 2024
- Contributed to front-end development and database management, enhancing the platform's user interface and functionality.
  - Collaborated with team members to integrate AI-driven tools, improving the platform's efficiency and user experience.
- Inductee and Organiser**, AI Safety Camp, Virtual AI Safety Unconference Dec 2023 – May 2024
- Inducted into AI Safety Camp 2024, where I contributed to organizing the Virtual AI Safety Unconference, bringing together leading experts to discuss AI safety concerns.
  - Coordinated international participation, managing over 40 talks and presentations that covered a wide array of topics in AI safety and ethics.
- Research Assistant**, American University of Sharjah Jun 2023 – Dec 2023
- Conducted research on transformer-based models to enhance image recognition technology.
  - Gained hands-on experience with semi-supervised learning techniques and transformer models.
- Event Organiser**, TEDxYouth@DPSS – Sharjah, United Arab Emirates May 2023 – Sep 2023
- Led the media and outreach teams for TEDxYouth@DPSS 2023, managing publicity, marketing, and social media campaigns.
  - Oversaw event logistics, contributing to the event's success in engaging a broad audience.
- Design and Research**, Effective Altruism India Jul 2022 – Sep 2022
- Assisted in the design and creation of event mock-ups, ensuring high-quality presentation materials for EAGxIndia.
  - Conducted research on EA community-building in Asia, providing insights to strengthen EA networks across the region.
  - Collaborated with event organizers to refine logistical planning, contributing to the event's overall success.
- Front-end Developer and Data Visualiser**, Effective Altruism Data, Legal Priorities Project Oct 2021 – Apr 2022
- Redesigned and improved the design of Effective Altruism Data, enhancing its functionality.
  - Leveraged expertise in Python, Dash, and Plotly to optimize visualization and accessibility.
  - Worked for the Legal Priorities Project to provide data visualizations for their paper, "Protecting Future Generations: A Global Survey of Legal Academics".

## Publications

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**GameBench: Evaluating Strategic Reasoning Abilities of LLM Agents**

Jul 2024

10.48550/arXiv.2406.06613

## Projects

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### **Bear Blog Replacement Template**

[github.com/y-arjun-y/bear-blog-replacement-template](https://github.com/y-arjun-y/bear-blog-replacement-template)

- Developed a lightweight blog template to replace the Bear Blog platform with customization options for design and layout.
- Tools Used: HTML, CSS, JavaScript

### **bettermailto**

[github.com/y-arjun-y/bettermailto](https://github.com/y-arjun-y/bettermailto)

- Created an enhanced mailto link generator that provides additional options like pre-filled subject and body text for emails.
- Tools Used: JavaScript, HTML

### **gallpeters**

[github.com/y-arjun-y/gallpeters](https://github.com/y-arjun-y/gallpeters)

- Implemented a tool for Gall-Peters map projection, providing an accurate area representation of different regions.
- Tools Used: Python, Matplotlib

### **Liars in the Miller-Rabin Primality Test**

[github.com/y-arjun-y/liars-miller-rabin](https://github.com/y-arjun-y/liars-miller-rabin)

- Developed a Python implementation of the Miller-Rabin primality test with detection of liar numbers.
- Tools Used: Python

### **youthree**

[github.com/y-arjun-y/youthree](https://github.com/y-arjun-y/youthree)

- Created a website dedicated to displaying the unemployment rates (U1-U6 & LU1-LU4) of the United States and the United Kingdom.
- Tools Used: React, Node.js, Express, MongoDB

## Skills

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**AI & Math:** AI Safety, Linear Algebra, Multivariate Calculus (all certified)

**Public Speaking:** Model United Nations (Best Delegate x2, Best Speaker, Outstanding Delegate)

**Effective Altruism:** Along with EA Manchester and EA UAE, I facilitated EA Virtual Programs' In-depth program, and was accepted to (and attended) EAGxOxford 2022.

**Environmental Awareness:** Led several dialogues on environmental issues at high school, helping to organise large-scale events such as flash mobs and conferences.

**Writing:** Lead an active blog on my personal website ([arjunyadav.net](https://arjunyadav.net)), former beta-reader for Holden Karnofsky.

## Technologies

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**Programming Languages:** Python, JavaScript, Java, Verilog and Assembly (RISC-V)

**Markup Languages:** HTML/XML/CSS, LaTeX and Markdown

**Other Technologies:** React.js & Next.js, Express and MongoDB