Arjun Yadav

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Education

The University of Manchester, BSc(Hons) Computer Science — Sep 2024 – Present

- **Societies and Leadership Roles**: Academic Representative for Computer Science, Events Officer at The University of Manchester's Computer Science Society (UniCS), Website Developer at Makerspace Manchester, AI Vision Team Member at Manchester Stingers Motorsports and AI Officer at EA Manchester.
- **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-organiser of TEDxYouth@DPSS 2023, 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

Sales Representative, AIESEC – Manchester, United Kingdom — Jan 2025 – Present

- Developing and executing strategic outreach initiatives to secure partnerships with companies in the North-West region of England.
- Employing advanced sales practices and technologies to maintain a smooth and consistent level of outreach.

Technology Director, Kickstart Global – London, United Kingdom — Aug 2024 – Present

- Established and managed critical digital infrastructure for the Founders Under 24 (FU24) fellowship, streamlining collaboration via platforms such as WhatsApp, Notion, and Google Admin Workspace.
- As a part of the role, developed a housing renovation platform at Entrepreneur First's Fall Hackathon in Shoreditch Exchange and later curated a lunch with all the fellows of the FU24 fellowship.

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

- Conceptualised Offline Streaming Systems, a platform to enable seamless data transfer without an active internet connection by optimising mesh network performance.
- Further collaborated on Feed Forward, a platform designed to manage and redistribute food waste by designing workflows to improve food donation matching and logistics.

Research Collaborator, Dioptra — Dec 2023 – Jul 2024

- Programmed the classic card game Pit as part of the nine games for GameBench, a research project aimed at analysing the strategic reasoning of the most popular large language models.
- Co-authored a paper presented at the Language Gamification Workshop 2024 at NeurIPS 2024.

Co-Founder, Effective Altruism UAE — Dec 2022 – Jul 2024

- Built 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.

Inductee and Organiser, AI Safety Camp, Virtual AI Safety Unconference — Dec 2023 – May 2024

- Inducted into AI Safety Camp 2024, organised 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 for the World Wildlife Fund's set of CameraTrap images.
- Gained hands-on experience with semi-supervised learning techniques and transformer models.

Front-end Developer and Data Visualiser, Effective Altruism Data, Legal Priorities   Oct 2021 – Apr 2022
Project (now Institute for Law & AI)
- Redesigned and improved the design of Effective Altruism Data, enhancing functionality.
- Leveraged expertise in Python, Dash, and Plotly to optimize visualisation and accessibility.
- Collaborated with Legal Priorities Project to provide data visualisations for "Protecting Future Generations: A Global Survey of Legal Academics".

Publications

GameBench: Evaluating Strategic Reasoning Abilities of LLM Agents   Jul 2024
10.48550/arXiv.2406.06613

Projects

Bear Blog Replacement Template   github.com/y-arjun-y/bear-blog-replacement-template
• Developed a lightweight blog template to replace the Bear Blog platform with customisation options for design and layout.
• **Technologies**: Next.js, Git and npm.

bettermailto   github.com/y-arjun-y/bettermailto
• Created an enhanced `mailto` link generator that enables the end user to choose an email client of choice.
• **Technologies**: React.js, Next.js, OAuth and MongoDB.

gallpeters   github.com/y-arjun-y/gallpeters
• Implemented a tool for Gall-Peters map projection, providing an easy way to create a map that is unique compared to the typical Mercator Projection commonly used.
• **Technologies**: D3.js and Express.js.

Liars in the Miller-Rabin Primality Test   github.com/y-arjun-y/liars-miller-rabin
• Wrote a Python implementation of the Miller-Rabin primality test with the detection of liar numbers to facilitate research.
• **Technologies**: Python and Jupyter Notebook.

youthree   github.com/y-arjun-y/youthree
• Designed a website dedicated to displaying the unemployment rates (U1-U6 & LU1-LU4) of the United States and the United Kingdom.
• **Technologies**: Node.js and Express.js.

Skills & Volunteering

AI & Math: AI Safety (Center for AI Safety), Machine Learning (Duke University), Linear Algebra, Multivariate Calculus and Principal Component Analysis (Imperial College London).

Public Speaking: Model United Nations (Best Delegate x2, Best Speaker, Outstanding Delegate) and COP 28 Majlis Programme.

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

Volunteering & Environmental Awareness: Managed and volunteered at Iftar distributions, environmental awareness flash mobs and relief campaigns as part of Opportunities to Expand (OptX), DPS Sharjah's Environment Club and the Emirates Red Crescent.

Writing: Lead an active blog on arjunyadav.net and was formerly a beta-reader for Holden Karnofsky.

Technologies: Python, JavaScript (React.js & Next.js, Express), Java, Verilog, Assembly (RISC-V) and MongoDB.