Darsh Sai Kiran Velagapudi

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EDUCATION

Shamrock International School **Vijayawada, Andhra Pradesh**

Class XII – Maths, Physics, Chemistry, Informatics Practices | Class XI: 96.4% | Class X: 98.2% | SAT: 1440 Expected Graduation: [2027]

- **Awards:** Best Delegate and Special Mention, VIVA MUN | 4th Position, IIT Kharagpur Young Innovators' Programme (smart city model) | Stage 2 Qualifier, INAIO AI Olympiad (ACM India) | Winner, School Basketball Finale (House Captain)
- **Certifications:** CS50, Harvard University (edX) – weekly problem sets in C, Python, SQL, and JavaScript
- **Activities:** Speaker, Andhra Pradesh Government Panel on the Gorumudda Mid-Day-Meal Scheme | Volunteer, Chethuva Foundation (school for autistic children; taught subjects and donated furniture)

WORK EXPERIENCE

Best Brains **Arlington Heights, Illinois**

Web Intern *[Month Year] – [Month Year]*

- Contributed to the web-based learning platform of Best Brains, a US-based education company headquartered in Arlington Heights, Illinois, that offers Math, English, Abacus, and Coding programs for children aged 3 to 14 through learning centers and online classes.
- Assisted with front-end development and supported improvements to the online tools used in tutoring and running classes, learning how a live ed-tech platform is designed, built, and maintained while working within an organizational tech team.

RESEARCH EXPERIENCE

Independent Research Paper – Machine Unlearning (Published, IOSR-JCE) **Vijayawada, Andhra Pradesh**

Researcher *[Month Year] – [Month Year]*

- Authored an independent research paper on machine unlearning, studying techniques that allow trained AI models to selectively forget the influence of specific data points, and published it in the peer-reviewed IOSR Journal of Computer Engineering in Grade 11.
- Reviewed and synthesized existing literature through structured academic research, examining the theoretical, regulatory, and ethical dimensions of unlearning and its role in data privacy and model accountability across modern AI systems.

Independent Research Paper – Comparative Review of Vision-Based Robot Navigation (Ongoing) **Vijayawada, Andhra Pradesh**

Researcher *[Month Year] – Present*

- Survey classical geometric SLAM (Simultaneous Localisation and Mapping) and deep-learning-based approaches side by side, comparing accuracy, computational cost, and robustness across structured (indoor/urban) and unstructured (outdoor/agricultural) settings.
- Propose how the findings could extend Kisan AI's existing computer-vision module into a physically navigating field robot, applying shared benchmarks and evaluation criteria within a structured literature-review methodology to compare each approach.

LEADERSHIP EXPERIENCE

Kisan AI (Self-Built AI Assistant for Farmers) **Vijayawada, Andhra Pradesh**

Founder&Developer *[Month Year] – Present*

- Designed and built Kisan AI end-to-end, an AI assistant supporting farmers that combines 5 capabilities in a single accessible tool: crop price prediction, weather forecasting, crop suggestion, computer vision, and language translation.
- Developed machine learning models for price prediction, weather forecasting, and crop suggestion and integrated computer vision and multilingual translation features, prioritizing simplicity so farmers who are not tech-savvy can use the assistant.

Shamrock International School **Vijayawada, Andhra Pradesh**

Head Boy *2024 – 2025*

- Served as Head Boy for the 2024-25 academic year, leading the school in all events, activities, and tours and representing Shamrock International School at various external activities while guiding fellow students with responsibility and empathy.
- Strengthened coordination with students and staff while managing school events, leading by example and bringing organisation, communication, and problem-solving to each responsibility as a disciplined and accountable student leader.

Model United Nations – VIVA MUN, IIMUN, and Harvard MUN India **Andhra Pradesh and Bangalore, India**

Delegate *[Month Year] – [Month Year]*

- Represented the USA in the UNSC and India in DISEC at VIVA MUN, Guinea in the World Economic Forum at IIMUN, and Iraq in UNOOSA at Harvard MUN India, debating AI and employment, AI-based weapons, and space debris across 4 committees.
- Led a bloc as India's delegate in DISEC on nuclear weapons and the regulation of AI-based weapons, securing a resolution that passed with a 100% majority and winning Best Delegate, in addition to a Special Mention in the UNSC committee.

14BLOGS (Self-Driven Technical Blog) **Vijayawada, Andhra Pradesh**

Author *[Month Year] – Present*

- Researched, wrote, and published 14+ in-depth blogs covering AI/ML concepts, core computer science fundamentals, and their real-world applications through a self-driven technical blogging initiative sustained from Grade 9 through Grade 12.
- Simplified complex technical topics for readers with varying levels of background, breaking advanced AI and computer science concepts into clear, structured explanations and building consistency and discipline through regular publishing.

SKILLS&INTERESTS

Skills: C | Python | SQL | JavaScript | Machine Learning | Computer Vision | Front-End Development | Arduino | Languages: English, Telugu

Interests: Artificial Intelligence, AI Ethics and Data Privacy, Robotics, Agricultural Technology, Model United Nations, Basketball