

Sudarshan Krishnan

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EDUCATION

Purdue University

Computer Science | Bachelor of Science | Minor in Mathematics
Dean's List | Honor's Student | Honor's List

May 2027

GPA: 4.0

WORK EXPERIENCE

Medical Informatics Inc. – Artificial Intelligence Developer Intern

Fall '24

- Led the design and development of several of multiple enterprise level microservice applications in the field of Bio informatics with a scope to store, manage, interpret, and analyze data at the genome, proteome, transcriptome, and metabolome levels.
- Developed several products using artificial intelligence and machine learning to aid in 4 different healthcare sectors, with a target consumer range of 3 million users.
- Leveraged Open Ai's GPT- 4.0 to employ advanced natural language processing techniques, intricately summarizing complex medical records for time-pressed physicians.

Purdue University - Frontend Developer Associate

Oct '23

- Served as a backend developer for Purdue University's Honors Department, spearheading the creation and optimization of a dynamic webpage. Implemented robust backend functionalities to enhance user experience and facilitate seamless content management.

Purdue University – Research Assistant

Jan '23

- Contributed to the development of MARS, an innovative automated system for mouse behavior analysis, through data collection and annotation.
- Enhanced pose estimation accuracy and behavior classification by implementing advanced machine learning techniques.
- Involved in the integration of these advancements into a user-friendly software package, facilitating significant progress in neuroscience research.

Purdue University – Research Assistant

Jan '23

- Conducted a research project to determine the probability of genetic disorders in offspring based on parental health records, focusing on the correlation between parents' sickness information and genetic predispositions in children.
- Developed and implemented an algorithm to analyze allelic compositions from parental genetic data, enabling the prediction of potential genetic disorders in future generations with improved accuracy.

PROJECTS

SignScape - | Python | Open CV | Resnet 18 | CSS | SCSS | NumPy

Jan '24

- Led the innovative 'Sign Scape' initiative, focusing on the integration of cutting-edge artificial intelligence to revolutionize communication for the hearing-impaired. Pioneered the development of a comprehensive real-time hand sign recognition system.
- Expertly architected and implemented a sophisticated sign recognition algorithm using Python and OpenCV. Employed a finely tuned Resnet18 deep learning model, trained on a diverse dataset, for accurate and responsive sign interpretation.
- potentially benefit approximately 70 million deaf and hard-of-hearing individuals worldwide, ensuring wide accessibility and usability in diverse environments.

GreenScape - | Python | Jupyter Notebooks | CSS | SCSS | PyTorch

Nov '23

- Pioneered the development of eco-friendly fertilizers through the application of AI waste sorting methodologies, utilizing advanced algorithms to discern and classify biodegradable waste with precision.
- Strategically designed for seamless integration into urban environments, the project involves the implementation of cutting-edge deep learning techniques for the creation of a versatile waste sorting robot.
- This robot is engineered to achieve real-time recognition of diverse trash items, demonstrating a commitment to technological innovation in sustainable waste management practices.

