Jaishana Bindhu Priya

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Bengaluru, India   +91 8870040108

EDUCATION

Indian Institute of Information Technology Dharwad, Dharwad, India   *Dec. 2022 - May 2025*

Bachelor of Technology in Computer Science and Engineering; GPA: 9.09/10.00

EXPERIENCE

IBM, Remote   *Aug.2023 - Dec.2023*

Software Developer Intern

- Contributed to a ROS development project, architecting a command and event interface for a Finite State Machine, with a focus on pushing the boundaries of robotic control capabilities and responsiveness.
- Collaborated with cross-functional teams in the ROS internship, contributing to the research-driven design and implementation

Indian Institute of Science, Bengaluru, India   *Jun.2023 - Aug.2023*

Software Developer Intern

- Conducted user research with 100+ users through surveys and usability testing, resulting in a 20% increase in user satisfaction.
- Led the integration of React.js, utilizing Material-UI to build a responsive and intuitive interface that increased user engagement by 15%.
- Architected a Django-based back-end with SQLite for efficient data management and developed 10+ REST APIs enabling dynamic data access and visualization.

Research Intern

- Developed a real-time object edge detection system using TensorFlow for 3D sketching applications
- Leveraged convolutional neural networks and OpenCV to achieve an accuracy of 85% in detecting edges of various objects captured through the camera.
- Employed transfer learning to accelerate model development and proposed a novel data augmentation technique to improve performance on limited datasets.

RESEARCH EXPERIENCE AND PROJECTS

Design and Development of Offical Website   *Jun.2023 - Aug.2023*

- Conducted extensive UI/UX research to inform the design and development of a cutting-edge website, ensuring a user-centric approach that maximized usability, accessibility, and overall user satisfaction.
- Drove the research-focused integration of React.js in front-end development. The outcome: a responsive and intuitive interface that elevates the digital engagement for research-oriented users.
- Architected the back-end infrastructure on Django, incorporating MySQL for data management and developing REST APIs to enable dynamic interactions. This research-driven approach facilitated efficient dynamic data handling

Crop disease detection and Pesticide Recommender   *Aug.2022 - Feb.2023*

- Developed and implemented advanced machine learning models to significantly enhance the accuracy of crop disease detection, leveraging cutting-edge algorithms and techniques
- Integrated a sophisticated decision support system that not only identifies crop diseases but also provides precise recommendations for pesticide selection, aligning with research-driven strategies for sustainable and targeted agricultural practices.
- Iteratively refined the models based on ongoing research findings and feedback, ensuring the adaptability and relevance of the crop disease detection system in response to evolving agricultural challenges

Skills and Strengths

Programming Languages:
Python, C, C++, JavaScript, Kotlin , Dart
Technical Skills:
TensorFlow, Algorithms, Automation, CSS, Computer Vision, Deep Learning, Django, Flutter, HTML5, Machine Learning, MongoDB, MySQL, OpenCV, Quantum Computing, Software Development,Arduino
General Skills:
Analytical Thinking, Collaboration, Communication, Critical Thinking, Design,Leadership, Management, Operations, Team Building, UI Design, User Experience
Research and Analysis:
Adaptability, Analytics, Problem Management, Recommendations, Research, Sentiment Analysis
Team and Project Management:
Teams, Technical, Management

Positions of Responsibility

Google Developer Student Clubs Lead of the Club 2023-24
Career Guidance Cell, IIIT Dharwad Student Placement Co-ordinator
Cisco Campus Ambassador
E-cell Vice President

References

Dr. Pavan Kumar C
Head of Department, Department of Computer Science and Engineering,
Indian Institute of Information Technology Dharwad (IIITDwd), Karnataka, India
Email : pavan@iiitdwd.ac.in

Prof. Dibakar Sen
Professor, Department of Mechanical Engineering and Department of Design and Manufacturing
Indian Institute Science, Bengaluru, India
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