VRUSCHIKA R M

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Professional Summary

Computer Science student with a strong foundation in algorithms, data structures, and programming languages including Java, C++, and JavaScript. Experienced in developing applications through personal and academic projects, with a keen interest in web development and problem-solving. Looking for internship opportunities to enhance my practical experience and collaborate with professionals in a fast-paced software development environment.

Technical Skills

- **Programming Languages:** C, Java, Python
- **Web Technologies:** HTML5, CSS3, JavaScript, React.js
- **Database Management:** MySQL, MongoDB
- **Tools & Platforms:** Git, VS Code, AWS
- **Concepts:** Algorithms, Data Structures, Object=Oriented programming, Artificial intelligence, Machine Learning

Education

Bachelor of Engineering in computer science engineering   **2023 – 2026(expected)**
JSS Academy of Technical Education, CGPA:8.22 /10.0 (till 5th sem)

Diploma in computer science engineering   **2020-2023**
Sri Jayachamarajendra Government Polytechnic, CGPA: 8.50/10.0

School (1st -10th)   **passed-2020**
Poorna prajna high school, Belur, 10th percentage: 86.7%

Projects

- **Heatmap Detection**
  Built a heatmap detection system using image processing and machine learning techniques to identify and visualize areas of high activity or interest in visual data. The system processes images or video frames to generate heatmaps, highlighting regions with significant patterns, such as user attention or movement. It can be applied in fields like user behavior analysis, sports analytics, and environmental monitoring.
- **Age and Gender Detection**
  Created an image processing and machine learning model to predict age and gender from facial features using Convolutional Neural Networks (CNN). Integrated OpenCV for facial detection and trained the model on a large dataset, achieving high accuracy in real-time predictions. The system provides valuable insights for applications in marketing, security, and user personalization.
- **Detection and mitigation of cybersecurity**
  Worked on the detection and mitigation of cybersecurity threats by implementing proactive monitoring techniques, identifying vulnerabilities, and developing strategies to reduce risk. Focused on improving system resilience through real-time threat detection, data analysis, and mitigation planning.

Internship Experience

AI & Computer Vision Intern   **02/2023 - 05/2023**
Cairo Vision, Bengaluru

Gained hands-on experience in developing AI and computer vision solutions using deep learning techniques. Contributed to data collection, analysis, and algorithm implementation across industries like retail, healthcare, and security. Collaborated on client-focused projects, tailoring AI strategies to business needs and gaining insights into AI consulting and deployment**.**

Certifications

- Artificial Intelligence - Samsung innovation campus
- Database management system - Great learning
- Cloud technologies – women in Cloud excellence in India, RVCE
- Natural language processing for developers - Infosys springboard