VARUN K T

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⊙ https://github.com/Varunt08

OBJECTIVE

Detail-oriented and motivated Computer Science student with a strong foundation in backend development, database management, and cloud technologies. Seeking to leverage hands-on experience in software engineering to contribute to innovative projects in a dynamic work environment.

EDUCATION

Jawaharlal Nehru National College of Engineering   **2021 – present**
*B.E. in Computer Science - **7.2** - **CGPA***   *Shimoga, Karnataka*

Prajna Academic for Career Excellence (PACE)   **May 2020 – June 2021**
*II Pre-University - PCMB - **Percentage** - **76.08%***   *Shimoga, India*

SKILLS

Languages: C, Java, Python, JavaScript
Developer Tools: VS Code
Technologies/Frameworks:.NetCore, GitHub, Mongo, HTML, CSS, Bootstrap, Flask, MySQL
Soft Skills: Problem Solving, Communication, Time Management, Team Collaboration, Adaptability, Critical Thinking, Leadership, Attention to Detail

PROJECTS

BedWise Connect ⧉ | Technology Stack Used: Flask, MySQL, CSS, Bootstrap   **Backend Development**

- About project:
  - Developed a database management system using MySQL database in Apache XAMPP, efficiently managing over 500 records and streamlining database interactions.
  - Built the platform with Flask and Bootstrap, implementing three user roles (hospitals, patients, admin) and adding database triggers to track bed bookings and occupancy.
  - The project optimizes hospital bed management through a centralized platform for bed reservation and tracking, improving resource allocation and patient care.
  Achievements:
  - Successfully built and deployed a hospital bed management system that improves hospital efficiency.
  - allowing hospital personnel to monitor and manage bed occupancy in real time, leading to better decision making and optimized resource allocation.
  - Enhanced patient experience by reducing delays in bed assignments through automated tracking.
  Future Improvements:
  - Integration of automated notifications for patients and hospital staff on bed availability and booking status.
  - Expansion of the platform to include more advanced analytics and reporting features for hospitals.
- Live site here

VegDisease Classifier ⧉ | Technology Stack Used:HTML,CSS Bootstrap,Flask,MYSQL **Machine Learning**

- About project:
  - This project utilizes Convolutional Neural Networks (CNN) to automate the classification and analysis of vegetable diseases based on images. By training a deep learning model with a large dataset of labeled vegetable images, the system aims to quickly and accurately identify plant diseases, enabling early intervention and better crop management.
  Tools Technologies:
  - Disease Detection Accuracy: A CNN model capable of identifying and classifying diseases with high accuracy.
  - Model Deployment: An application where users can upload images of vegetable plants and receive predictions on whether the plant is healthy or diseased.
  - Impact on Agriculture: By enabling faster, more reliable disease detection, the model can help farmers take prompt action to control the spread of diseases, reducing the need for pesticides, enhancing crop yields, and contributing to sustainable farming practices.

- Frameworks: TensorFlow, Keras, Flask, NumPy, SQLAlchemy, matplotlib, PIL for building and training the CNN model.
- Programming Language: Python, due to its vast ecosystem of libraries for deep learning and image processing.
- Data Augmentation Tools: OpenCV for image processing and augmentation.
- [Live site here](#)

PUBLICATIONS

Deep Learning Driven Vegetable Disease Classification and Analysis – Published in International Journal for Research in Applied Science and Engineering Technology (IJRASET), Volume 12, Issue XII, December 2024. The paper explores AI-driven solutions for early crop disease detection to minimize losses and promote sustainable agriculture.

CERTIFICATIONS

• Cyber Security Internship - Completed a 6-week program with IBM SkillsBuild, Edunet Foundation, and AICTE (Oct 2023 – Nov 2023), focusing on practical cybersecurity skills and applications.

• Inter-Intra Institutional Internship - Completed a three-week internship at Jawaharlal Nehru New College of Engineering, Shivamogga, gaining practical exposure and enhancing engineering skills.

ACTIVITIES AND ACHIEVEMENTS

Badminton Achievement: Won a badminton competition organized by Sri Vijay James and Jewelers Cooperation in Gandhi Nagar. Demonstrated strong athletic skills, strategic gameplay, and competitive spirit, showcasing dedication to sports and physical well-being.

DECLARATION

I hereby declare that the above given data are true and accurate to the best of my knowledge and belief, and I take full responsibility for the correctness of the information.