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Summary

I am a recent graduate with a Bachelor of Technology in Computer Science, equipped with strong problem-solving abilities, analytical thinking, and a passion for software development. I am proficient in various programming languages and have hands-on experience in Machine Learning through academic projects. I am eager to apply my technical skills to real-world challenges and contribute to the growth of an organization.

Education

Primary School:

Keshava Reddy School (2018), CGPA:9.5

Secondary School:

Narayana Junior College (2018-2020), CGPA:9.0

Graduation:

Karunya Institute of Technology and Sciences (2020-2024), CGPA:7.55

Skills

Technical Skills: Python, Java, C#, Basic SQL, HTML, CSS and Machine learning.

- **Python Frameworks and Libraries:** Proficient in Scikit-learn, Pandas, NumPy, Matplotlib, and Seaborn.
- **Java Concepts:** Solid understanding of key concepts such as classes and objects, multithreading, exception handling, and object-oriented programming (OOP).
- **Machine learning:** Experienced in developing machine learning models such as Decision Trees and deep learning models like ResNet.
- Collaborated in the development of website for projects using HTML and CSS

Key Skills:

- Strong problem-solving skills with the ability to analyze issues, develop solutions, and implement them effectively while ensuring accuracy and reliability.
- Excellent communication skills in conveying technical information clearly and effectively.
- Collaborated on the development of multiple projects as part of a team.
- Demonstrated leadership in non-academic activities, including roles in the Nature Club and journalism.

Project Experience

Diabetes Prediction Using Machine Learning

Developed a predictive model to determine the likelihood of diabetes in individuals using supervised machine learning algorithms. This model incorporates key input factors such as insulin levels, gender, age, body mass index (BMI), and family medical history to enhance accuracy. The implementation involved data preprocessing, feature selection, and algorithm selection, including Decision Trees, to ensure reliable output. Additionally, I utilized cross-validation techniques to validate the model's performance, achieving a high level of accuracy and robustness.

Water Level Indicator

Designed and developed an IoT-based water level monitoring system utilizing an ultrasonic sensor, Arduino microcontroller, breadboard, and jumper wires. This project involves deploying an ultrasonic sensor to measure the water level in a tank, providing real-time data for monitoring. The Arduino processes the sensor readings and communicates with a mobile application via the Blink platform, allowing users to visualize the water level remotely.

Crop Pest Prediction in Paddy Fields Using Deep Learning

Developed a deep learning model for predicting pest infestations in paddy fields, utilizing the ResNet architecture to enhance classification accuracy. This project involved creating a comprehensive dataset that includes images of eight different pest species commonly found in paddy fields. The model was trained using a robust dataset with extensive data augmentation techniques to improve generalization and mitigate overfitting. By leveraging transfer learning, I fine-tuned the ResNet model, optimizing hyperparameters to achieve high accuracy in pest detection. The model effectively analyzes input images, providing real-time predictions to assist farmers in taking timely action against pest invasions, ultimately aiming to increase crop yield and reduce pesticide use.

Languages Known

- English
- Telugu
- Hindi
- Tamil