Boggavarapu Manikanta Saish

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Education

Indian Institute of Information Technology, Kancheepuram **Dec. 2021 – Present**
Bachelor of Technology in Computer Science and Engineering - CGPA:- 9.54 (Till 5th Sem) *Chennai, India*

Narayana Junior College **June. 2019 – May. 2021**
Intermediate - Score: 95.6% *Nellore, India*

Vowel Techlan **May. 2019**
Marticulation - CGPA: 10/10 *Nellore, India*

Experience

AI Research Intern **May 2023 – August 2023**
Innovative Solutions for Smart Parking Systems *Chennai, India*

- Developed an innovative project titled "AI Enabled Car Parking using OpenCV " under the guidance of our college professor. The project is focused on implementing computer vision and artificial intelligence techniques to enhance traditional parking systems. I learned configuring and applying data augmentation techniques, and subsequently, building a Convolutional Neural Network (CNN) model for effective space detection and parking optimization.
- Utilized OpenCV for advanced image processing, TensorFlow and Keras for building a Convolutional Neural Network (CNN), and the ImageDataGenerator class for data augmentation.

Projects

Breast Cancer Prediction | *Matplotlib, Seaborn, Plotly, Scikit-learn, pickle* **June 2023**

- Performed comprehensive analysis including data exploration, preprocessing, feature engineering and visualization, leading to the implementation and fine-tuning of multiple machine learning models.
- Demonstrated proficiency in understanding and diagnosing machine learning models, utilizing sophisticated methods to rectify inaccuracies in breast cancer prediction, resulting in a commendable accuracy rate of 92%.

Neural Architecture Search for Image Recognition | *Python, PyTorch, Keras, Scikit-learn* **November 2023**

- Developed and implemented a Neural Architecture Search (NAS) algorithm to optimize the architecture of convolutional neural networks (CNNs) for image recognition tasks.
- Trained and evaluated the performance of discovered neural architectures on benchmark datasets such as CIFAR-10 or ImageNet.The goal is to automatically discover and fine-tune architectures that outperform manually designed networks.

OpenCV Object Detection | *OpenCV ,TensorFlow, Keras, Scikit-image, Pillow (PIL)* **October 2023**

- Utilized OpenCV for basic image processing tasks like resizing, blurring, edge detection, enhancing image quality and prepared data for analysis.
- Employed TensorFlow and Keras to implement and train deep learning models for object detection, leveraging pre-trained architectures for efficient model development. Additionally, integrated Scikit-image and Pillow (PIL) for image manipulation functionalities, refining object detection accuracy through preprocessing techniques.

Technical Skills

Languages: Python, C, C++, SQL, MATLAB, JavaScript
Skill Set: Predictive Modeling, Statistical Analysis, Artificial Neural Networks, Data Mining, Technical Documentation
Frameworks: TensorFlow, PyTorch, Scikit-learn, Keras, Microsoft Azure ML
Libraries: NumPy, Pandas, Matplotlib, Seaborn, Cuffins, Tableau, Scipy, OpenCV, XGBoost
Developer Tools: Git, Github, VS Code, Google Cloud Platform, pip

Relevant Coursework

- Data Structures
- Statistics for ML
- Machine Learning
- Deep Learning
- Reinforcement Learning
- Applied Data Science
- Artificial Intelligence
- Computer Vision

Leadership and Academic Achievements:

- Silver medalist in academics, honoured with felicitation for consistently outstanding performance throughout.
- Technical Lead at GFG Student Chapter, conducting workshops and mentoring juniors through informative sessions.
- Core member of CS Club Networking Team, leading multiple projects that enhance the club's performance.
- Attained a global ranking of 24th in a prestigious coding contest conducted by CodeChef.
- Winner of Vashisht Machine Learning Hackathon, showcasing expertise in applying ML techniques in the real world.
- 2nd prize in the 'Codigo' CP Contest at IIITDM-K, showcasing coding and problem-solving abilities.