Jonnalagadda Dinesh

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Education

Prasad V Potluri Siddhartha Institute of Technology **Sep. 2020 – April 2024**
Bachelor of Technology in Computer Science and Engineering *Vijayawada, Andhra Pradesh*

Relevant Coursework

- Data Structures and Algorithms
- Software Engineering
- Operating Systems
- Computer Networks
- Database Management Systems
- Deep Learning
- Block-chain Technology
- MERN Stack Development
- object-oriented programming
- Software Project Management
- Design Thinking
- Computer Organisation

Experience

DeCenter AI **September 2023 – Present**
Software Engineer Intern *Remote*

- Developed an application for demo purpose using Streamlit and included samples in st.sidebar and Minimised the training time of the sysytem using Subprocess, Queue Approach.
- Resolved 10+ issues and tasks , Contributed to the project Decentralized and Democratized AI Model Training Infrastructure.
- Currently Working on the Project using Nextjs, Streamlit, Python

Microsoft **May 2022 – July 2022**
Future Ready Talent Intern *Virtual*

- Completed Self-learning modules(AZ-104,AZ-204,AZ-500,AI-900,PL-300,Github)
- Developed a Project, e-Auction Web application using HTML,CSS and js, used Primary Azure Technology as Azure Bot Service, Static web apps, VS code and Web for deployment.

Projects

Robust Copy Move Forgery Detection using Deep Learning | *Python, CNN* **October 2023- Present**

- Developed a cutting-edge Copy-Move Forgery Detection system, anchored by a specialized Convolutional Neural Network (CNN) architecture.Currently enhancing the Copy-Move Forgery Detection system by incorporating localization to accurately pinpoint and highlight specific regions of manipulation within images.
- Applied advanced image preprocessing techniques using OpenCV and TensorFlow, optimizing the model's accuracy in distinguishing authentic and manipulated images.

Brain Tumor Classification (MRI) using DPC++ | *SYCL, DPC++,Intel OneAPI, Visual Studio* **June 2023**

- Spearheaded the development of a high-performance brain tumor detection algorithm using SYCL/DPC++ and Intel oneAPI Toolkits, achieving real-time processing and significantly outperforming CPU-based solutions.
- Applied advanced optimization techniques, including parallel data access and loop unrolling, coupled with Intel-specific SYCL/DPC++ extensions, resulting in a substantial increase in GPU utilization and computational efficiency.

Technical Skills

Languages: Python, Java, C,C++, HTML/CSS, JavaScript
Libraries/Frameworks: React, Nextjs, Express, Streamlit
Operating Systems: Windows,Linux
Databases:MySQL, MongoDB
Developer Tools: VS Code, Git, Github, Docker, Android Studio
Machine Learning: NLP, Reinforcement Learning, LLM's, Tensorflow, Pytorch
Others: Problem Solving, Critical Thinking, Analytical skills, Networking, Leadership, Teamwork, Design Patterns

Certifications

- HTML5,CSS3, Javascript (Infosys Springboard)
- Programming with JAVA (NPTEL)
- Mobility and Device Fundamentals(Microsoft MTA)
- Fortinet Certified Associate -Cybersecurity(Fortinet)
- Cloud, Machine Learning Foundations (AWS)
- Python Essentials 2 (Cisco Networking Academy)

Accomplishments

- Intel OneAPI Hackathon 2023 Grand Finalist, organised by Intel, Hack2Skill, held @IISC Banglore
- Top Performer in Hackstart competition,E-Summit 2023, IIT Madras
- Third Prize in Business plan competition, E-Cell, PVPSIT
- Participated in 10+ National Level Tech Hackathons
- Streamlit Student Ambassador, Campus Ambassador for E-cell, IIT Guwahati
- Top performer in SmartInterviews Data Structures and Algorithms course.
- Memeber of NSS, Student Council,Innovation Club @PVPSIT