Shridhar S Benni

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Passionate engineer with a keen interest in Machine Learning, Artificial Intelligence, and Data Science. Seeking opportunities to apply technical skills to drive innovation and contribute to impactful projects in these domains.

TECHNICAL SKILLS

Languages : Python, C/C++, SQL.
Technology : Machine Learning, Artificial Intelligence, Deep Learning, Computer Vision, Linux.
Dev Tools : Sublime, VS Code, Colab, Jupyter Notebook.
Soft Skills : Flexible, Professionalism, Punctuality.

EXPERIENCE

Video Communication Engineer Aug 2022 – July 2023
Synaptics *Bengaluru, India*

- As a member of the Feature Development team at Synaptics, I was actively involved in the development and enhancement of System-on-Chip (SoC) solutions, specifically focusing on the VS640 and VS680 platforms.
- Primary responsibility was to implement machine learning models on the VS640 and VS680 platforms, focusing on the deployment of an Image Segmentation model for background replacement during video calls.
- Integrated advanced machine learning models and utilized quantization techniques for optimization. Employed GStreamer for camera frame handling and display, while leveraging OpenCV for effective video frame preprocessing and post-processing.
- Successfully delivered a high-performance feature, enhancing the VS680 platform with real-time background replacement during video calls.

EDUCATION

Manipal School of Information Science 8.47/10
Master of Engineering in Artificial Intelligence and Machine Learning *Sep 2021 - Nov 2023*

Manipal Institute of Technology 7.10/10
Bachelor of Technology in Electronics and Communication *July 2018 - July 2021*

PROJECTS

Gait Analysis using Machine Learning (ME) *Python, Edge Impulse, Machine Learning libraries.*

- An attempt to train and deploy machine learning model to correctly classify human gaits and to find abnormalities in gait of the person to address it properly.
- Collected data using accelerometer and gyroscope sensor in our mobile using Edge Impulse platform and collected and preprocessed data from open source.
- Trained and observed results of various machine learning models like Decision Tree, SVM, KNN and more.

Full Adder Using Magic Design Style (B.Tech) *Tina, LTspice, and MatLab.*

- To study the new component in the Electronics field called memristor which has interesting properties, and it has the potential to replace the current CMOS technology as it is estimated to consume less space and energy.
- Utilized Tools like Tina, LTspice and Matlab for designing prototype.
- Implemented prototype successfully but failed to reduce the energy consumption.

HOBBIES

- Mediation, Swimming, motorcycle riding.

REFERENCES

- Mr. Sudarsan N S Acharya (Assistant Professor) – sudarsan.acharya@manipal.edu, 9845308499
- Mr. Rajesh Singh (Staff Software Engineer ||) – Rajesh.singh@synaptics.com, 804955807