PAVAN M G

SOFTWARE ENGINEER

CONTACT

(+91) 9483 875 897

pavanmggp@gmail.com

pavan-mg.github.io

Hitech City, Hyderabad, India - 500081

SKILLS

Interests: Data Structures and Algorithms, Deep Learning, Embedded Systems, Computer Vision, Web Devlopment

Languages: C/C++, Python, RISC V Assembly, Perl, HTML, CSS, Javascript.

Frameworks: Keras, Tensorflow, OpenCV, Tkinter.

Tools: Perforce, Git, MS Office, MATLAB.

EDUCATION

B.Tech - Electrical Engineering 2021
Indian Institue of Technology, Varanasi
Grade: 8.31
Academic Courses: AI, Applied Deep Learning, Natural Language Processing, Parallel Computing, Data Structures and Algorithms, C Programming, Probability and Statistics, Calculus, Numerical Techniques, Digital Electronics, Control Systems, etc.

XII Std - PUE, Karnataka 2017
FIITJEE P U College, Bengaluru
Percentage: 85.17
Academic Courses: Computer Science, Mathematics, Physics and Chemistry.

X Std - KSEEB, Karnataka 2015
Abhinava Bharathi High School, Mandya
Percentage: 97.92 (School Rank 1)

CERTIFICATION

Coursera: Machine Learning by Stanford University. Deep Learning Specialization by Deep Learning AI. Data Structures and Algorithms Specialization by UC San Deigo.

Hackerrank: Problem Solving, C, C++ and Python.

PROFILES

Linkedin | Github | Hackerrank | Leetcode

LANGUAGES

English, Kannada and Hindi

WORK EXPERIENCE

Qualcomm India Private Limited, Hyderabad

DDR Software Systems Engineer OCT 2022 - PRESENT
- Enabling DDR Features for Chip Station Modem Device of 3 Variants.

DDR Software Systems Engineer, Associate MAY 2021 - OCT 2022
- Enabling DDR Features for Value Tier Chipsets which includes Snapdragon 600 and 400 Seies

DDR Tools Development Interim Intern MAY 2020 - AUG 2020
DDR Eye Health Classifier Tool
- Built **Algorithms** to map the relation of Vref and CDC of DDR PHY into 2D Array Data called DDR Eye Plot for enabled DDR Frequencies and Read/Write operations on DDR Sub_System of a referenced Chipset.
- Generated **Synthetic data** that mimicked the Eye Plot data from scratch to get Eye Plot samples of Specific Classes from it.
- Developed a **Multiclass Learning Model** using CNN from the data generated, and built a framework for getting the summary of belonging class and feature parameters of Eye Plot on Test SoCs.
- Received a **Pre-Placement Offer.**

FEATURED PROJECTS

Fully functional Self-driving Car Simulation. JAN 2020 - DEC 2020
B.Tech Thesis Project. Advisor: Prof Shyam Kamal, EEE, IIT (BHU), Varanasi.
- Used Computer Vision techniques like **Hough Transform** via OpenCV to identify lane lines.
- Trained **Convolutional Neural Networks** to identify various traffic signs.
- Trained Convolutional Neural Networks via **behavioral cloning** techniques to predict the driving steering angle based on image data from left, center, and right-mounted cameras using **Keras** Framework.
- Built a **fully functional mode**l to Self-Drive the Simulator car by Udacity.

Modelling and simulation of photovoltaic cell FEB 2019 - APR 2019
Exploratory Project. Advisor: Prof V N Lal, EEE, IIT (BHU), Varanasi. Used
- Used, **Simulink** programming environment (MATLAB) to implement the Electrical modeling of PV cells.
- Developed, **Mathematical modeling** of IV characteristics in the form of continuous piecewise functions using **regression**.
- Generated the **graphical results** of the above for various specifications

Other Projects:
Brain Tumor Detection using Genetic Algorithms. Assembling Genomes Using de Bruijn Graphs. Sort-Term Load Forecasting using LSTM Networks.