PAVAN M G

SOFTWARE ENGINEER

• Linkedin • Github • Hackerrank • Leetcode

CONTACT

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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.

LANGUAGES

English, Kannada and Hindi

OBJECTIVE

In anticipation of an opportunity providing intellectually challenging work in the field of computers for proving and enriching my knowledge and skills

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 model** 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.