Pooja Puthiyapurayil

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Education

M.TECH – 2017 -2019

COLLEGE OF ENGINEERING TRIVANDRUM

M-tech from **APJ Abdul Kalam Techinical University(KTU)** in **Micro and Nano Electronics** with **CGPA 8.53**.

B.TECH - 2012 -2016

COLLEGE OF ENGINEERING VADAKARA

B-tech from **Cochin University(CUSAT) in Electronics And Communication** with aggregate **CGPA 8.09.**

Projects Undertaken

1.DESIGN OF ULTRA LOW POWER 9T SRAM CELL

Designed a 9T SRAM cell working in subthreshold region in order to reduce the power consumption using CADENCE VIRTUOSO software tool. For reducing the sub-threshold leakage power, a source-body voltage and drain induced barrier lowering (DIBL) effect are dynamically controlled in the readout path transistors and a supply voltage gating pMOS transistor is utilized. Moreover decreasing the leakage current and resistance of the readout path enhances its functionality at ultra-low voltage and reduces the read access time respectively.

2. EPILEPSY MONITORING SYSTEM

Designed an epilepsy monitoring system using flex sensor and accelerometers to take the input and it was fed to a microcontroller. Above a certain threshold value, the condition was considered to be epileptic and a message was sent to the nearby doctor using GSM technology.

3. HEALTH MONITORING SYSTEM

A health monitoring system was developed where it would measure temperature, pressure and heart rate. Temperature was measured using LM35 sensor, heartbeat rate using IR sensor pair and pressure using pressure monitoring device.

4. EMG BASED HAND GRASP RECOGINITION USING MACHINE LEARNING

Developed a machine learning algorithm that classified six grasp movement with better accuracy based on 2-channel EMG using just 8 features . The classifier used was ensemble bagged tress and obtained an accuracy of 90.4%.

Achivements

- Qualified GATE EXAMINATION -2017
- Qualified UGC-NET EXAMINATION-2018
- Participated in POSTER PRESENTATION - "SAMHITA 2019"
- Final Year M.tech thesis paper was accepted to be published in Scopus Indexed Journal.

Internship

Successfully completed online training on Machine Learning. The training consisted of Introduction to Machine Learning, Data, Introduction to Python, Data Exploration and Pre-Processing, Linear Regression, Introduction to Dimensionality Reduction, Logistic Regression, Decision trees, Ensemble models and Clustering modules.

Strength and skills

- Knowledge in programming languages like C and PYTHON
- Familiar with MATLAB
- Knowledge in MACHINE LEARNING
- Self-confident & Hardworking
- Willingness to learn and adapt to new opportunities and challenges