NIMISHA RAICHEL VARGHESE

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CAREER OBJECTIVE

To work in a firm with a professional work driven environment where I can utilize and apply my knowledge skills which would enable me as a fresh graduate to grow while fulfilling organizational goals.

ACADEMIC ACHIVEMENTS

Currently : Pursuing M.Tech in Communication Engineering, ———

Rajagiri School of Engineering and Technology, **Cochin**

CGPA – 7.96/10

2016 : Completed B.E in Electronics and Communication,

Rajiv Gandhi College of Engineering, Chennai

CGPA – 7.7/10

2012 : 12th -**O E M Public School, Eraviperoor**

Percentage: 57

2010 : 10th - **O E M Public School, Eraviperoor**

CGPA: 8.2/10

WORKSHOPS AND PROJECTS

- Workshop on Cloud Computing &Big Data. Duration: One day (September 14, 2014)
- Participated in the Smart City Hackathon, organized by CII-Yi Coimbatore on 19-20 August 2016

a) M.TECH

Seminar and Mini project:- Feature Extraction and Classification of Diabetic Retinopathy

Morphological segmentation methods to extract the retinal vessels and then the exudates are extracted by Fuzzy C means based segmentation and morphological techniques. The retinal vessel density and the exudates being the two features are fed to the SVM to optimally classify the images into their respective stages. This system provided an overall accuracy of 84.4% for the classification of diabetic retinopathy.

Main project:- Performance Analysis of Diabetic Retinopathy using Machine and Deep learning

Automated methods for detecting and classifying the type of disease like normal or abnormal have important medical application in this field. Although deep learning and traditional machine learning methods have shown many accuracy in this field. A comparative analysis between machine learning and deep learning.Support Vector Machine and Random forest are the two best algorithms taken from machine

learning. Local binary pattern (LBP)technique is used for feature Extraction in machine learning. Pretrained Alexnet,Vgg16 and LSTM are used in Deep learning. Individual algorithms are optimized with respect to their tunable parameters, and are compared together in terms of their accuracy, Sentsivity and specificity. Also plot the performance evaluation graph of machine learning and deep learning using this parameters.

b) B.TECH

Main Project:- Design and implementation of a blind person communication system using RFID and LI-FI technology.

LI-FI is new emerging technology in the field of optical communication. It uses VLC (visible light communication) for transferring hence it was wide bandwidth and high transmission rate.Scope of project: Blind people assistances Li-fi technology can be employed in almost all buildings. Li-fi street lights can be employed to assist blind people when they are outside in the street. Li-fi enabled public transport systems is also helpful in creating friendly environment for visually impaired subject.

TECHNICAL EXPERTISE

- Electronic circuits and Integrated circuits design
- Image processing
- Mobile technology
- Microprocessors and controllers design and analysis

OTHER SKILLS

- Computer language C and C++
- Programming languages MATLAB
- LabVIEW

PERSONALITY TRIALS

- Hardworking
- Positive attitude
- To work with full cooperation as a team member
- Self-motivated

LANGUAGES

- Malayalam : Mother tongue
- English : Fluent