# Bijay Dev K M

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## EDUCATION

**NITK SURATHKAL**
MTech in Computer Science & Engineering
Expected June 2018
CGPA after II Sem: 9.16 /10

**BTech in Information Technology**
Grad. June 2016 | Govt. Engineering College Palakkad, Kerala
Cum. GPA: 8.24 / 10.0

**Higher Secondary**
Chinmaya Vidyalaya
Palakkad,Kerala
Grad. May 2012| Percent:87

**High School**
Chinmaya Vidyalaya
Palakkad,Kerala
Grad. May 2010| Percent:85

## LINKS

Github:// **bijaydev**
LinkedIn:// **bijaydev**

## SKILLS

**PROGRAMMING**
C • C++ • LaTeX • Git
Familiar:
ns-3 • MySQL • MATLAB
• Keras • HTML

## ACTIVITIES

PG CSE Department Representative
PG Joint Secretary Incident 2018
PG CSE Placement Represenative

## PERSONAL

DOB        :12/03/1995
Languages: English,Malayalam
Address    : Sreesylam, Moolamcode,
                Palakkad,Kerala 678684.

## PROJECTS

**AUTOMATIC DETECTION OF FOCAL CORTICAL DYSPLASIA USING CNN FROM MR IMAGES** (Ongoing)
In this project, we are developing a deep learning model for the detection and segmentation of Focal Cortical Dysplasia from MR images.

**IMPLEMENTATION OF MADPIE ALGORITHM IN NS-3**
PIE is an Active Queue Management (AQM) mechanism developed to address the bufferbloat problem. MADPIE algorithm was proposed to address the drawbacks of PIE, but exhaustive evaluation of MADPIE shows that it fails to achieve the same.

**IMPLEMENTATION OF EXPLICIT CONGESTION NOTIFICATION (ECN) IN TCP OVER WIRELESS NETWORK USING NS-3**
This project is a minor modification to the working of ECN and TCP but provides a significant improvement in the performance of TCP over wireless network.

**A MACHINE LEARNING APPROACH FOR AUTOMATED SEGMENTATION OF RETINAL CYSTS IN SD-OCT IMAGES**
In this project, an unsupervised automatic cyst detection and segmentation algorithm for SD-OCT images was developed. The developed algorithm uses K-means algorithm for clustering and level set algorithm for the segmentation and has precision of 76%.

**DIABETES RISK AMONG WOMEN**
This project aims to find the relationship between various health indicators and the risk of onset of Diabetes Mellitus in women. A logistic regression model was developed with accuracy of 86%.

## PUBLICATION

**AN ENERGY AWARE RELIABLE AND ROBUST ROUTING PROTOCOL FOR WIRELESS SENSOR NETWORK**
Presented in International Conference on Trends in Research, Engineering & Developmental Sciences, Kerala, India, June 16-17, 2016.

## ACHIEVEMENTS

- Class topper of CSE (MTech).
- College topper in Mathematics (BTech).
- Table Tennis champion in the annual college sports meet 2015.

## REFERENCES

Dr. Jeny Rajan
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