

KAUSTHUB THEKKE MADATHIL

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EDUCATION

National Institute Of Technology Karnataka, Surathkal

Bachelor of Technology : Major in Information Technology

Minor in Management

July 2019 - May 2023

CGPA : 9.04/10.00

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Deeksha Centre for Learning, Bangalore

PUC, Class 12, PCMC.

June 2017 - May 2019

Distinction - 93.16%

Chinmaya Vidyalaya Cannanore

Class 10, CBSE

June 2015 - May 2017

CGPA - 10.0/10.0

WORK EXPERIENCE

Summer Research Mentee

Supervisor : Dr. Unnikrishnan Cheramangalath

May 2021 - Present

IIT Palakkad

- Incorporated for-loop, 1D & 2D array and builtin function for sort into the HOC interpreter.
- Studied and analysed loop optimizations on matrix multiplication and its effect on cache.

Student Developer

Supervisor : Dr. Kiran M

May 2021 - Present

NITK, Surathkal

- Developing a dosimeter-app based on radiochromic films to eliminate human error and to cut down cost due to the conventional steps of dosimetry.

SELECTED PROJECTS

Sharding of D2D users

August 2020 - November 2020

- Sharding of D2D users using K-means algorithm based on the application type for providing better resources to public safety devices and calculation of SINR using PSC-NS3.

Real Time Face Mask Detection

August 2020 - November 2020

- Classified images into three categories using transfer learning approach to build the model with MobileNetV2.
- Achieved 98% accuracy on a dataset of 4000 images which is in par with the current benchmark accuracy.

ACM-NITK Website Revamp

December 2020 - May 2020

- Changed the front-end from HTML/CSS to React.js. Worked on the back-end to expose the APIs and couple the new front-end with the old Django back-end.

TECHNICAL SKILLS AND INTERESTS

Skills

Framework or Library

Interests

Coding: C/C++ **Scripting:** Python, Shell. **Dev:** HTML/CSS, Javascript.

Django, React.js, OpenCV, YACC, FLEX

Compilers, Web Development, Computer Organisation and Architecture

EXTRA CURRICULAR AND ACHIEVEMENTS

- Web Master at ACM NITK Chapter
 - Responsible for maintaining and updating the website of ACM NITK Chapter.
 - Mentoring juniors in projects and conducting Knowledge Exchange Sessions.
- Top 50 in the Hackverse'21 hackathon.
- Publishing technical blogs on Medium.
- Member of NITK table tennis team