KAUSTHUB THEKKE MADATHIL

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EDUCATION

Bachelor of Technology
National Institute of Technology Karnataka

July. 2019 – May 2023
Surathkal, Karnataka

- Major in Information Technology [CGPA : 8.98/10.00]
- Minor in Management [CGPA : 9.00/10.00]
- Relevant courses : Data Structures & Algorithms, Discrete Mathematics, Computer Communication & Networking, Computer Organisation, Signals & Systems, Financial Management, H R Management

WORK EXPERIENCE

Dept. of Information Technology, NITK
Research Assistant

Jan. 2020 - Present
Guide : Dr. Kiran M

- Working on a dosimeter-app based on Radiochromic films.
- Conventional steps for dosimetry include human error and very costly which we are trying to overcome this by developing the software.

PROJECTS

Sharding of D2D users

Aug. 2020 - Nov. 2020

- Sharding of D2D users using K-means algorithm based on application type.
- Calculation of SINR and corresponding resource allocation using PSC-NS3.

Real Time Face Mask Detection

Aug. 2020 - Nov. 2020

- An image classification problem approached using Transfer learning to build the model.
- Achieved 98% accuracy on a dataset of 4000 images. (in par with the current benchmark accuracy). Libraries like TensorFlow, Keras, OpenCV was used.

e-KYC using blockchain

Oct. 2020 - Present

- Building an infrastructure for maintaining e-KYC using blockchain with the help of HyperLedger Fabric.
- The tool will help various organizations to join hands and store the data of their users in the network, thus minimizing the redundant process of getting the user data for each organization.

ACM-NITK Website Revamp

Dec. 2020 - Present

- Changing the front-end from HTML/CSS to React.js along with additional features for better user experience.

SKILLS

Languages: C, C++, Python, Javascript, HTML/CSS

Frameworks and Libraries: TensorFlow, Keras, NumPy, OpenCV, Django, React.js

Tools: Git, Jupyter Notebook, Visual Code, LaTex

EXTRA CURRICULAR

Executive Member of ACM NITK chapter
Undertaking projects, mentoring and organizing events in the field of computer science.

Member of Table Tennis Team (NITK)
Represented the college in Father Muller Tournament - Semi Finalists