Nikhil Venkat Kumsetty

Linkedin: linkedin.com/in/nikhil-venkat-kumsetty-92969887/
Github: github.com/nikhilvenkatkumsetty

Email: nikhilvenkat26@gmail.com
Mobile: +91-9008826999

Education

- **National Institute of Technology Karnataka, Surathkal** — Mangalore, India
  Bachelor of Technology - Information Technology CGPA: 7.15 — *July 2018 - June 2022*
- **Sri Chaitanya Techno school (CBSE)** — Bangalore, India
  Class 12 Percentage : 80% — *July 2015 - June 2017*
- **The Global Edge school (CBSE)** — Hyderabad, India
  Class 10 CGPA: 9.2 — *July 2007 - June 2015*

Skills Summary

- **Languages**: Python (Adept), C (Familiar), C++ (Adept), JavaScript (Familiar), SQL (Familiar), Java (Familiar)
- **Frameworks**: Node.js, AngularJS, Express.js, TensorFlow, React.js
- **Tools**: MySQL, MongoDB
- **Relevant Coursework**: Operating Systems, Data Structures and Algorithms, Object Oriented Programming , Computer Communication and Networking, Database Systems, Automata and Compiler Design

Projects

- **Real-Time Salient Object Detection with a Minimum Spanning Tree (Algorithms, Image Processing)**
  Extraction of salient objects by computing the distances to the boundaries of the image using distance transform and traversing the pixels using minimum spanning tree to find the most significant object(s) in the image. The proposed algorithm achieves leading performance in terms of efficiency of O(n) time complexity (April 2020)

- **Marketplace : An e-commerce web application (Web development)**
  Implemented searching/filtering based on categories and price range, authentication based on JWT, flexible private and admin routing system using Node.js. Built layouts and routes such as shop, cart,user dashboard, Order Management System by Admin and Local Storage for CRUD operations on products to Minimize Requests to back-end using React Hooks. Tech: Node.js, MongoDB, Express.js, React.js. (March 2020)

- **Driver drowsiness detection system (Facial Recognition)**
  Implementing facial landmark detection and developing a function for eye detection. Implementing the Eye Aspect Ratio (EAR) and developing a function to compute EAR and check with EAR threshold. Tech: Python, OpenCV, Dlib (November 2019)

- **Remote Electronic Voting System (Computer communication and Networking)**
  A terminal program for election process in which a person can cast vote from any place.Implemented using RSA algorithm to encrypt and decrypt data. Tech: Socket Programming, MySQL (April 2019)

Honors and Awards

- Qualified Round 2 in National Engineering Olympiad 3.0 - June, 2020
- Awarded Rs.75,000 cash prize scholarship in FIITJEE Talent Reward Examination - August, 2017
- Qualified for Level 2 in International Maths Olympiad and National Science Olympiad - February, 2015
- Awarded 1st prize in Inter-school Social studies Quiz - May, 2015

Volunteer Experience

- **Volunteer for Special Education Centre for the mentally handicapped** — Hyderabad, India
  Organized a campaign for donation and public awareness in my school — *Sep 2014*

Extra Curricular Activities

- Competitive Programming
- Chess : Blitz Rank of 1163 in chess.com