K.Anamithra

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EDUCATION

IIIT Vadodara International Campus Diu — **Kevdi, Diu**
Computer Science and Engineering, CPI: 8.24 — *2021 - Present*

Sri Chaitanya Junior College — **Vijayawada, Andhra Pradesh**
Class XII, Percentage: 95.9 — *2019 - 2021*

SKILLS

Programming Languages: C, C++,Python, JavaScript, HTML, CSS, MySQL, MongoDB, EJS, Verilog
Frameworks: Node.js, Express.js, React.js, Bootstrap, Mongoose, jQuery
Libraries and Tools: Git/GitHub, Postman, NumPy, Pandas, Tensorflow
Software: MATLAB, Lens studio, Wondershare Filmora
CSE Core Courses: Data Structures, Algorithms, OOPS, DBMS, Operating Systems

WORK EXPERIENCE

Nullclass EdTech Private Limited
Web Development Intern — *Feb 2024 - Present*

- Designed and developed a Stack Overflow-inspired website with dynamic theme adaptation based on user location and weather, ensuring optimal display across devices with responsive design and media queries.
- Led the implementation of a cutting-edge public space for multimedia sharing, featuring a robust filtering system and a chatbot for programming queries with OTP authentication; facilitated seamless subscription-based question posting through integration with Stripe and Razorpay.

IIIT Vadodara ICD
Teaching Assistant, Computer Organization and Architecture — *Sep 2023 - Present*

- Supported 100 students as a Teaching Assistant for Computer Organization and Architecture, offering guidance on course material and evaluating lab works and projects to enhance practical skills.
- Conducted evaluations of students' lab works and projects, providing constructive feedback to enhance their learning and practical skills.

PROJECTS

Diabetic Retinopathy: $TensorFlow, Keras, Scikitlearn, Python$ — **Github**

· Enhanced the accuracy of diabetic retinopathy detection from 76% to 83.4% by transitioning from a CNN to a residual neural network, coupled with meticulous data augmentation techniques to address limitations in the dataset.

· Further refined the model to focus on distinguishing between No-DR and Mild-DR classes, achieving an accuracy of 91.2% through streamlined classification with dense layers, showcasing expertise in optimizing model architecture and data preprocessing for improved medical diagnostics.

Perception image compressing with huffman coding: $OpenCV, OS, Pillow, Python$ — **Github**

· Developed a Python project leveraging OpenCV, OS, Pillow libraries to implement image compression using Weber's Law for lossy compression and Huffman coding for lossless compression, resulting in efficient storage with both lossy and lossless compression methods.

· Utilized Weber's Law and Huffman coding techniques to compress images in a lossy and lossless manner, optimizing storage space while maintaining image quality, in a Python project incorporating OpenCV, OS, and Pillow libraries.

Stack Overflow Clone: $HTML, CSS, JavaScript, Node.js, Express.js, React.js, MongoDB$ — **Github**

· Spearheaded the development of a comprehensive full-stack clone of Stack Overflow, showcasing proficiency in a wide array of web development technologies including HTML, CSS, JavaScript, Node.js, Express.js, React.js, and MongoDB.

· Executed a comprehensive workflow encompassing data loading, image segmentation, data augmentation, model training, and model saving to achieve successful outcomes.

ACHIEVEMENTS

- Completed Tata Virtual Internship in Data Visualization. Link
- Got Selected in Amazon ML summer school 2023. Link
- Secured 5621 (AIR) rank in Codekaze by Coding Ninja. Link