

Education

- National Institute of Technology Karnataka, Surathkal**
Major: Electrical and Electronics Engineering
CGPA: 8.82/10.0
Minor: Information Technology
Expected Graduation: May 2023

Experience

- National Institute of Technology Karnataka, Surathkal – Computer Science Department**
Research Intern May 2021 - August 2021
 - Implemented Deep Learning Models for Segmentation of Medical Images.
 - U-net Architecture used to improve the accuracy of the model from 75% to 92%.
 - Implemented new Loss Functions to solve class imbalance problem.
 - Technologies used:** Python, TensorFlow, Keras, Convolutional Neural Networks(CNNs), OpenCV and NumPy.

Programming languages

Software Skills

Industry Skills

- Python
- Java
- C++
- C Programming
- JavaScript
- SQL

- Data Structures and Algorithms
- Database Management system.
- TensorFlow, Keras
- OpenCV, NumPy
- MATLAB, GNU Octave
- HTML, CSS, JavaScript

- Machine Learning/ Deep Learning
- Object Oriented Design
- Full Stack Web development
- UI/ UX design
- Git and GitHub

Projects

Project Description	Technologies and Frameworks
1. Dr.Programmer :- Web Application to learn computer Science fundamentals Link <ul style="list-style-type: none"> Developed a full stack web application for people all over the world to learn and apply computer science fundamentals. Features of Web App – Learn fundamentals, take skill test, solve coding problems, User accounts, Project Ideas, Articles and tutorials for self-learning. 	<ul style="list-style-type: none"> React Js, Node Js, Express Js, MongoDB database used. HTML, CSS and JavaScript fundamentals used to develop web app.
2. Image Classification with Machine Learning techniques Link <ul style="list-style-type: none"> Image classification implemented for MNIST (handwritten digits) dataset, CIFAR-10 dataset and HAM-10000 dataset. Convolutional Neural Networks (CNNs) used to train the Deep Learning Models. 	<ul style="list-style-type: none"> TensorFlow, Keras and Python. OpenCV, NumPy, Matplotlib and TensorBoard libraries used.
3. Image Segmentation with Deep Learning Link <ul style="list-style-type: none"> Image Segmentation implemented on open-source Skin Cancer datasets. U-net Architecture used to make deep learning models which segment images. Implemented new Loss Functions to improve the accuracy of the model. Implemented the designed Deep learning model on a Kaggle dataset during an Open Challenge and increased the accuracy of the model considerably. 	<ul style="list-style-type: none"> TensorFlow, Keras and Python. OpenCV, NumPy, Matplotlib and TensorBoard libraries used. Pooling Layers, Up-Sampling, Batch Normalization and Dropout techniques utilized.
4. RTO Database Management System <ul style="list-style-type: none"> Implemented a MySQL relational database to store Attributes and items of data used by Regional Transport Offices in India. Features included methods to Add data, retrieve data, modify existing data and maintain the security of the database and keep the database restricted from unauthorized accesses. 	<ul style="list-style-type: none"> MySQL database system. Relational databases. Open-source MySQL data visualization software used.

Achievements, Recognitions and Positions of Responsibility

- Executive member of Institution of Engineering and Technology (IET), NITK.
- Completed 4th level **Tabla** exam conducted by Akhil Bharatiya Gandharva Mahavidyalaya.
- All India Rank 9305 in JEE Main examination among 12 lakh students.
- Karnataka CET rank 593 among 1.4 lakh students.
- Received 1st prize in Arduino programming competition conducted by IEEE student chapter.