SIDDHARTH C T

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Education

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

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

Software Skills

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

Industry Skills

- 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 • 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.	• 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 • 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.	• TensorFlow, Keras and Python. • OpenCV, NumPy, Matplotlib and TensorBoard libraries used.
3. Image Segmentation with Deep Learning | Link • 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.	• 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 • 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.	• 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.