SANGEETA SATISH RAO

Interested in Internship/Full Time Employment Opportunities (2021)

Contact: +91 9986170011
sangeetasrao1@gmail.com
linkedin.com/in/sangeetasrao
sangeetarao.github.io

EDUCATION

BTech.(Major) in Electronics & Communication Engineering **2017-Present**
PES University | 8.97 CGPA

BTech.(Minor) in Computer Science Engineering **2018-Present**
PES University | 9.2 CGPA

Higher Secondary Education, State Board **2015-2017**
Sri Kumaran Children's Home Pre University College PCMB | 98%

Secondary Education, CBSE **2002-2015**
Sri Aurobindo Memorial School | 10 CGPA

WORK EXPERIENCE

Software Developer Intern at Paylabs **July-Aug'19**
Worked on developing backend aspects of the company website and fixing bugs using Django framework and Python.

Project Intern at Indian Institute of Science **May-Present**
Working on Parallelisation of Monte Carlo Method to enhance computing speed.

TECHNICAL SKILLS

Python | C | Verilog | R | MATLAB | Scilab | Django | Git

INTERESTS

Machine Learning | Artificial Intelligence | Software Development | Oil Painting | Sketching

PROJECTS

- **Analysis of Conventional Deep Learning Model for Object Recognition in 2-D Images** **Present**
  Currently building a Convolution Neural Network Model to classify real life objects into classes and analysing the effect of different validation techniques on the model's accuracy.
- **Prediction of the location of Acute Infarcts in MRI Images** **Mar-Apr '20**
  Designed a Convolution Neural Network Model to detect the position of acute infarcts in an MRI image with a limited dataset using TensorFlow, Keras and OpenVino. Improved the model accuracy by 50% with data augmentation and hyperparameter tuning.
- **Driver Alert System Using Raspberry Pi with OpenCV** **Jan-Apr'19**
  Developed a driver drowsiness detection model in which an alarm is sounded to alert the driver, if the driver is detected to be asleep at the wheel to prevent road accidents. This was implemented using two key Computer Vision techniques – Eye Aspect Ratio and Facial Landmark Extraction.

- **Data Science Analysis on Wipro Stocks using R** **Nov-Dec '18**
  Analysed various trends and fluctuations with respect to the Wipro stocks over the past 10 years using Time Series Analysis, Principle Component Analysis and Regression Analysis in R and prescribed steps to be taken in order for a financially successful undertaking.
- **Ball Tracking and Following Robot using Python** **Jan-Apr '18**
  Designed a robot that recognizes a ball by drawing contours and kicks it towards a goal with a servo motor using a Raspberry Pi, in Python using Open CV.
- **Two-sequence detector with Mealy overlap** **Oct-Nov '18**
  Designed a binary sequence detector using Mealy Finite State Machine in Verilog and implemented it on a Field Programmable Gated Array Board.

COURSES

Machine Learning| Data Structures and Algorithms | Operating Systems | DBMS
Algorithms for Information Retrieval | Social Network Analysis| Computer Networks

AWARDS AND ACHIEVEMENTS

- CNR Merit Scholarship – top 20% ECE Dept (I, II, III, IV and V semesters at PES University)
- Best Speaker, English Debate at Sri Aurobindo Memorial School in grade 9,10 and 11.

VOLUNTEER EXPERIENCE

- Parikrama Centre for Learning (Jan-Aug '19 and July'17)
  Involved in making Resource Packs and Practice Papers for underprivileged children
  Taught 8th grade Math to underprivileged children
- Swachh Bharath Campaign, Tree Plantation Drive (Oct '17)
- Organized the Blood Donation Camp, PES University (Jan '18)