

Sangeeta Satish Rao

Looking for Summer Internships 2019

Bangalore, India

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EDUCATION

BTech.(Major) in Electronics & Communication Engineering 2017-Present
PES University
9.06/10 CGPA

BTech.(Minor) in Computer Science Engineering 2018-Present
PES University

Higher Secondary Education, State Board 2015-2017
Sri Kumarans Children's Home Pre University
Physics, Chemistry, Mathematics and Biology | 98%

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

SKILLS

Python | C | Verilog | R | Matlab | Scilab | QUCS | Latex | Git

PROJECTS

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.
-The sequence detector accepts as input, a string of bits: either 0 or 1. Its output goes to 1 and the led bulb glows on the FPGA Board when a target sequence has been detected even with overlap.

Data Science Analysis on Wipro Stocks using R Nov-Dec '18
-The data provided for analysis of Wipro stocks was given in the form of relatively clean data sets. Features of interest were given with respect to the date, month and year in the form of 3 different data sets. Since the data scientists observed a few missing values, the decision was taken to omit those particular observations during analysis.
-Analyzed 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
-Based on the analysis, 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 and kicks it towards a goal using a Raspberry Pi, in Python using Open CV
-The bot recognizes a ball based on it's contour and colour and moves a fixed distance towards the ball and scans for the ball again and repeats the process until the ball is captured. The bot then scans for the goal and kicks the ball towards it, with the help of a servo motor.

COURSES

Control Systems (UE17EC251)
VLSI (UE17EC253)
Computer Organisation (UE17EC252)
Digital Circuit Design (UE17EC203)
Signals and Systems (UE17EC204)
Analog Circuit Design (UE17EC202)
Network Analysis and Synthesis (UE17EC201)
Engineering Mathematics (UE17MA207)

INTERESTS

VLSI | *DigitalDeisgn* | *OilPainting* | *Sketching*

AWARDS & ACHIEVEMENTS

CNR Merit Scholarship, Semester I, II at PES University for being in the top 20% of the Electronics and Communication Department.
Best Speaker, English Debate at Sri Aurobindo Memorial School in grade 9,10 and 11.

VOLUNTEERING

Swachh Bharath Campaign, Tree Plantation Drive, Oct 2017
Parikrama Centre for Learning, taught Math and English to grade 8 children, July 2017
PES University, organized the Blood Donation Camp, Jan 2018