SHOBHIT TULI

3rd Year ECE Undergraduate

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EDUCATION

B.Tech in Electronics and Communication (minors in Computer Science)
PES University, Bangalore

📅 Aug 2017 – Present   CGPA - 8.7/10.0

Class XII (C.B.S.E)
St. Clare's Senior Secondary School, Agra

📅 April 2015 – March 2016   Percentage - 90.2%

PROJECTS

Deep Learning Classifier to detect acute infarct [Brain malformation disease]
📅 April 2020
- Detecting the acute infarcts present inside the brain by building a CNN model, giving augmented images as input and then running the inference for testing the accuracy using Intel OpenVINO Framework.

Web traffic time series forecasting
📅 Dec 2019
- Time series analysis by using the Web Traffic Time Series Forecasting dataset by Google to predict future traffic of Wikipedia articles. We have implemented 5 models for time series prediction like SARIMAX, RNN and LSTM based model, Adaboost Regressor, Gradient Descent Regressor and Random Forest Regressor.

Object detection in twilight or night-time conditions
📅 Present
- We used YOLO and SSD fine tuned for our purpose. We did a comparative study between RCNN and YOLOv3 and SSD for object detection in twilight.

Stock Market prediction using R Programming
📅 Apr 2018
- Data Analysis and Prediction of Stock Market using statistical and graphical analysis along with Data Science concepts like regression, time series and histogram plots.

Street Lights that Glow on Detecting Vehicle Movement
📅 Mar 2019
- Automatic turning off and on of traffic lights using 8051 microprocessor, IR sensors and receivers.

Template Matching using Maximization of cross-correlation
📅 Nov 2019
- Using the given pictures, a particular template is detected from the entire image by comparing each pixel using different concepts of Image Processing via MATLAB Tool.

ACHIEVEMENTS

- **Top 15** in Intel India Technovation Contest, *PES University, Present*
- **CNR Rao Merit Scholarship** awarded for being amongst the top 20 percent in the Department, *PES University, 2nd Sem*
- **Prof. M R Doreswamy Merit Scholarship** awarded for being amongst the top 20 percent in the Department, *PES University, 5th Sem*
- **Distinction Award** in PESU I/O Project in Robo Sapiens, *PES University, 2nd Sem*

SKILLS

Artificial Neural Network   Machine Learning
Data Analytics   Computer Vision
Database Management   C++   Python
Operating System

FIELD OF INTEREST

- Artificial Intelligence
- Deep Learning
- Robotics

COURSEWORK

- Data Structure [Minors,CSE]
- Design and Analysis of Algorithms [Minors,CSE]
- Operating Systems [Minors,CSE]
- DBMS [Minors,CSE]
- Practical Approach to Deep Learning using Hardware Accelerator and Software Framework - Special Topic

CERTIFICATION

- Core Java [Internshala]
- Generate Synthetic Images with DC-GANs in Keras [Coursera]

EXTRA-CURRICULAR

- Organiser
  Samarpana-An event to honor the martyr of the Indian Defense Forces at PES University
  📅 Jan 2020– March 2020

- Volunteer
  Epsilon-Inter College Science Fest at PES University
  📅 2017-18

- Internshala Student Partner
  Student Partner 9.0
  📅 Jan 2017– May 2017

- Cultural Minister
  Head for all cultural activites in class 12th
  📅 April2015– March2016