

NEERAJ SINGH

Software and Data enthusiast, Technical Hoarder & Proud Geek

@ ns28@iitbbs.ac.in +91-8004789080 Bhubneswar, India
in https://www.linkedin.com/in/grayr00t/ https://github.com/GrayR00t



PROJECTS

Software Development

Open Source, Automation & Portfolio

- May 2017 – June 2017 IIT Bhubaneswar, India
- Contributed to ACL: Attendance on Command-Line, a python-pip package to fetch attendance and result from IIT BBS ERP and print it on the terminal.
 - Passionate to automate the things so written python to scripts to automate my daily stuff like reading/sending emails, searching on the web, etc.
 - The portfolio made using the Django framework and deployed it to Heroku server.
Link: <http://myresumeapp01.herokuapp.com/>

Data Science

Music Generation with RNNs

- May 2019 – Apr 2019 IIT Bhubaneswar, India
- The model is based off the LSTM architecture, where we use a state vector to maintain information about the temporal relationships between consecutive characters.
 - The nal output of the LSTM is then fed into a fully connected Dense layer where we'll output a softmax over each character in the vocabulary, and then sample from this distribution to predict the next character.

Software Development

Entry Management Software

- Nov 2019 – Dec 2019 IIT Bhubaneswar, India
- This application is built on the Python Flask framework to capture the visitor details and save in databases with timestamp. Twillio is used to trigger sms and smtplib used to mail user and host.
 - <https://github.com/GrayR00t/EntryManagementSoftware2019>

EXPERIENCE

General Secretary Science and Technology

Student's Gymkhana, IIT Bhubaneswar

- March 2019 – Present Bhubaneswar, India
- Elected from an electorate of nearly 2,500 students, the General Secretary is the chairman of the Council and supervises and coordinates all activities related to the council.
 - He/She is responsible for proper allocation of resources and funds to the clubs and hobby groups under the council and keeping updates on their practice as well.

Team Biomed

Healthcare, Signal Processing Algorithm & Rasberry Pi

- Apr 2019 – Jul 2019 IIT Mumbai, India
- My Team developed a non-invasive device for continuous monitoring of glucose concentration in blood.
 - My responsibility is to develop a signal processing algorithm to calculate glucose concentration from the signal obtained by the acquisition system and also integrated OLED/Buttons to Raspberry Pi to display glucose concentration and buttons to take input from the user end.

EDUCATION

B.Tech in Electrical Engineering

Current CGPA: 7.71

IIT Bhubaneswar

July 2017 – Present

Intermediate UP Board

Perecentage: 86.8



High School CBSE Board

CGPA: 9.2



ACHIEVEMENTS

SMART INDIA HACKATHON 2019, IIT BOMBAY

Only team selected for hardware Grand Finale by Marico Industries.

INTER IIT TECHMEET 2018, IIT BOMBAY

Silver Medalist in Smart Healthcare given by BETIC Lab, IIT Bombay.

STRENGTHS & SKILLS

Data Structure and Algorithms

Machine Learning

Deep Learning

Linux(Ubuntu,Kali)

Raspberry Pi

Tensorflow

Keras

Pandas

Scikit Learn

Numpy

Scipy

LANGUAGES

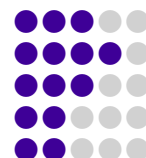
Python

C++

C

SQL

Java



EXTRA-CURRICULAR

Robotic Society Member

Students' Gymkhana IIT Bhubaneswar

Jan 2018 – Present

Core Head

Wissenaire IIT Bhubaneswar

March 2019 – Present