Tushar Asopa

(B.Tech)
Electronics & Communication Engineering
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Skills

OS
Linux, Windows

LANGUAGES
C/C++, Python, Javascript , HTML/CSS

FRAMEWORK
Node.js , ExpressJS ,Django, Bootstrap,

DATABASES
MongoDB

LIBRARIES AND OTHERS
Pytorch , Numpy ,Pandas , Matplotlib, mongoose , Ajax, MATLAB

Relevant Coursework

Data Structures and Algorithms Computer Programming Linear Algebra
Applied Multivariate Statistical Modeling
Probability and Random Processes
2021 Introduction to coding Theory
Communication and Controls in IOT

Awards & Achievements

2020

•IEE MAINS 2019
000
Achieved a percentile of 99.89 among about 1.2 million students who appeared for the exam

•CODEFORCES
Solved More than 200 questions

Projects

2021 **Algorythm** **Node.JS , Javascript , WebDev**

- A platform where people can read technical blogs related to coding and watch free as well as paid courses made by experts at Algorythm.
- Focusing on deploying this WebApp so that courses / blogs can be posted here.

2021 **Music Generation Using AI (Ongoing) LSTM, WaveNet , DL**

- Analysis of music files in MIDI format and pre-processing was performed.
- Explored various models using LSTMs and Vanilla Neural networks and fi- nally decided to go with a modified version of WaveNET to reduce training time. We are still working on fine tuning on the model.
- Currently working on a WebAPP which could enable users to download or listen to AI generated music from our server.

Go-Corona-Go **NodeJS , DSA , Javascript**

- Built a WebApp as a part of HackOn 2.0 that suggests the safest path along a walkable path form starting point to ending point taking into consideration the location of corona infected patients in the locality.
- The path is calculated using a modfied Djikstra algorithm by modifying the edge weights of the path by calculating a quantity 'Risk Factor'.

Chess Engine **Python , Pygame , OOPs**

- Built A chess engine with complete GUI built in python using pygame mod- ule and OOPs concepts.
- The game includes features such as highlighting the possible paths at each moves , En passant , Stalemate , Checkmate

Building Security System **Python , IOT , Arduino**

- A Building entrance security system using NodeMCU for remote sensing and Tkinter for GUI .
- Live data about entry and exit of members is displayed on BLYNK App.Supports OTP system for new entries or relatives of current residents.