Sandeep Kumar Swain

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👤 PROFILE

I am student from KIIT DU, currently pursuing Bachelors' degree in Computer Science and Engineering. I'm a self-taught full-stack developer and a freelance who enjoys creating things that live on the internet, be it websites, applications, or anything in between

🎓 EDUCATION

B.Tech in CSE
KIIT University, Bhubaneswar ⎆
2020 – present
9.2 CGPA as per 6th semester

Class 12th
FIITJEE Junior College, Vijayawada ⎆
2018 – 2020
95.5% in IPE-AP board

Class 10th ICSE
De Paul School, Berhampur ⎆
2010 – 2018
92.4% in ICSE board

🧠 SKILLS

Scripting/Programming Languages
C, C++, Java, Python, HTML/CSS, JavaScript

Web Dev
Next.js(React), Vue.js, Tailwind CSS, Bootstrap Node, Express

Databases
Firestore, MongoDB, HyGraph CMS, SQLite

Data Science
Tensorflow, Keras, Numpy, Pandas, Matplotlib

DevTools
Git, GitHub, VSCode, Netlify, Linux, GCP, Firebase

📁 PROJECTS

GAN Optimization using Duality Gap ⎆
11/2022 – present
- Implementation of Duality Gap concept on Other Optimization Algorithms of GAN to improve the performance.
- Faster rate of convergence of the GAN components due to the common objective function.
- Avoidance of oscillation and other anomalies during the training process.

Nearest neighbor Transformation of Quantum Circuits in 2D architecture ⎆
04/2023
- Implemented algorithm to minimize the insertion of swap gates.
- The qubits are placed in the grid such a way that the number of swaps are decreased.
- Then the best path of swaps are found using Genetic Algorithm.

Various Deep Neural Networks on Computer Vision ⎆
- Implemented an image captioning model using a CNN and a Transformer.
- Used Convolution LSTM for creating a Next-Frame Prediction Model.
- Implemented the concept of Style Transfer and auto-encoders.
- Worked on Super-Resolution and Low-Light Image Enhancement

Web Projects & System Designs
- E-Commerce Website (Radon ⎆)
- Social Media Web-App (SocialFair ⎆)
- Algorithm Visualizer (AlgoViz ⎆)
- Online Classroom Management (TS Classes ⎆)
- Freelance Sites for Konnexions ⎆ and I&U Cafe ⎆