

Sandeep Kumar Swain

Student | Developer



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🖱 sandeepswain.dev

🐙 github.com/54nd339

in linkedin.com/54nd339

🔗 codepen.io/54nd339

📅 18th September 2002

📄 PROFILE

Results-driven Computer Science and Engineering student seeking opportunities to leverage self-taught full-stack development skills and a passion for 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 ✍

November 2022 – present

- Implemented the concept of Duality Gap on Other Optimization Algorithms of GAN to enhance performance.
- Achieved a faster rate of convergence for GAN components by utilizing a common objective function.
- Successfully eliminated oscillation and mitigated other anomalies during the training process.

Nearest neighbor Transformation of Quantum

Circuits in 2D architecture ✍

April 2023

- Developed an algorithm to minimize the insertion of swap gates in quantum computing.
- Strategically placed the qubits on a grid to reduce the overall number of required swaps.
- Employed a Genetic Algorithm to identify the optimal path for executing swaps.

Various Deep Neural Networks on Computer Vision ✍

- Successfully implemented an image captioning model leveraging the power of a CNN and a Transformer.
- Applied Convolution LSTM to develop a robust Next-Frame Prediction Model.
- Effectively implemented the concept of Style Transfer and auto-encoders.
- Contributed to projects focused 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 ✍