

Sanat Tudu

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Indian Institute Of Information Technology, Bhilai

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EDUCATION

Indian Institute Of technology Bhilai

Bachelor Of Technology in Data Science and Artificial Intelligence

7.9 CGPA : Sep 2020-May2024

Bhilai, Chhattisgarh, India

KVS Santragachi, Howrah, West Bengal

Class 12th in Computer Science (CBSE)

92 % : July 2020

Howrah, West Bengal, India

KVS Santragachi, Howrah, West Bengal

Class 10th (CBSE)

77 % : May 2018

Howrah, West Bengal, India

TECHNICAL SKILLS

Languages : Python, C++

ML : Supervised, Unsupervised Machine Learning

Time series : Fbprophet, AR, MA, ARIMA, SARIMA

Deep Learning : ANN, CNN, GAN, Autoencoders, VAE

NLP : Word2Vec, TF-IDF, RNN, LSTM, Bert

Python Lib : Numpy, Pandas, OpenCV, TensorFlow, SciPy, Keras, SkLearn, PyTorch, Selenium, Beautiful-Soup

Web Dev : HTML, CSS, Javascript

Databases : MongoDB, SQL

Dev Tools : Visual Studio Code, Git

Additional Skills : MapReduce, RL, Associative Learning, BlockChains, Cyber Security

EXPERIENCE

Data Science

Exposys Data Labs

June 2023 – July, 2023

[Remote](#), [Code](#)

- Devised a hCaptcha Breaking system using **CNN**, **OPenCV**, reducing hCaptcha solving time by 20%
- Implemented an intelligent image categorization system that reduced manual categorization time by 75% and improved user experience

Data Science

Teachnook

March 2023 – April, 2023

[Remote](#), [Code](#)

- Developed a predictive model using economic and medical indicators to estimate country-level life expectancy; achieved 90% accuracy and provided valuable insights for public health planning.
- with an increase in user experience of 60% by implementing a visual dashboard.

Data Science

Corizo

March 2023 – April, 2023

[Remote](#), [Code](#)

- Built a Disease prediction system, using **OpenCV**, **numpy**, **sklearn**, with an accuracy of 90%
- Provided necessary precautions and the risk of the disease, increasing 30% user experience

PROJECTS

Jetson Nano Self driven car

OpenCV, Deep Neural Network, Numpy

[Code](#)

- Designed an autonomous self-driving car using the Jetson Nano board, combining deep neural networks and computer vision techniques, using **OpenCV, Deep Neural Network, Numpy**
- The car was able to navigate a complex obstacle course with a success rate of 95% and different sub-problem models were combined to come up with the solution

Food recommendation system

sklearn, BeautifulSoup, streamlit

[Code](#)

- Created a robust food recommendation engine utilizing advanced algorithms and user profiling techniques; drove a significant increase in customer satisfaction and retention by providing tailored food suggestions with 80% accuracy
- The recommendations are made using content and collaborative filtering using **sklearn, streamlit** with an efficiency of 75%
- Webscraping is also implemented to extract the food images from web using **BeautifulSoup** out of which 95% are correct

Interactive tools to generate art

HTML, CSS, Javascript, Canvas

[Link](#)

- Created an Interactive Generative Art tool using Canvas, using **HTML, CSS, Javascript, Canvas**

Mixture of Doodle images

Deep neural network, Autoencoders

[Code](#)

- Used the encoder of autoencoders to compress the data from a higher-dimensional space to a lower-dimensional space by 95%
- Defined a mixture of categories based on the coordinates of each different 10 category.

PORs

- Organized Prayatna 5.0, a student-led event to promote sustainability.
- Served as a Sports Coordinator at IIT Bhilai, overseeing the planning and execution of athletic events from two consecutive years (2020-2022)
- Member of Travelling Management Committee MERAZ, planned and organized student trips for MERAZ
- Worked with the Entrepreneurship Team Committee at MERAZ to support student entrepreneurs

E-CURRICULAR

- Competed in Competitive Programming Competitions
- Reached the quarters of Inter-IIT Football 2022
- Participated in Prayatna 4.0
- Led Prayatna 5.0
- Received recognition for my yoga skills at the KVS National Yoga Competition (2017-2018)
- Led my team to victory in the KVS Regional Football Championship (2019)