

# Saurabh Singh

Undergraduate



Web Portfolio



GitHub



LinkedIn



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## TRAINING + EXPERIENCE

### ZTM ACADEMY | TENSORFLOW AND DEEP LEARNING DEVELOPER

Aug 2021 – Jan 2022 | Remote

- Used Convolutional Neural Network and LSTM to designed a model to multi-classification of 101 Food items with greater accuracy >89 percentage.
- Create a Skimlit model of RTC paper consists of 200k labelled Randomized Control Trial(RTC) abstracts with better accuracy.

## PROJECTS

### ANOMALIES DETECTION | PYTHON, CNN, LSTM, JAVASCRIPT, HTML, CSS

SIH 2022

- Developed a ML model, where the model detects any fights, crimes, or violence >80 percent more accurately. .
- Model beats all the precision and accuracy of the other models introduced at the SIH-2022 Event.

### FUTURE PRICE PREDICTION | PYTHON, NUMPY, PANDAS, RANDOM FOREST ALGO.

Kaggle Competition 2022

- Built a model to predict the future price of bulldozers and beat up-to 97 percentiles of the submission on Kaggle.
- This model achieved and accuracy of more that 96 percentage with less computational time by using Mixed-Precision.

### FACE GESTURE RECOGNITION | PYTHON, OPEN CV, DLIB

Minor Project 2022

- Designed and developed Eye Blink detection model which produced result more accurately than the most out there on Kaggle website.
- The model uses Open-CV for the interface and generates the count of blinking of both eyes.

### FOOD CLASSIFICATION | PYTHON, TRANSFER LEARNING, CNN+LSTM, NUMPY

2022

- Developed a Deep Learning model which generates the predictions of food based on the images(input) of food.
- By using transfer learning of efficientNetB4 this model produced a >89 percentage of accuracy and with less computational time and work more efficiently.

## AWARDS AND ACHIEVEMENTS

2022	Finalist	Smart India Hackathon, MHRD, Govt. of India
2022	1 <sup>ST</sup> Position	Kaggle competition of time series problem
2021-22	Round 2	Google Code Jam
2019	Round D	Google Kickstarts
2014-16	National Level	Football Under-14 and Under-19(3 Times in row)

## HOBBIES

• Football • Cooking

## SKILLS

### DATA SCIENCE / MACHINE LEARNING / DEEP LEARNING / DATA VISUALIZATIONS

Data Preprocessing • Supervised Learning Algos • Unsupervised Learning Algos • ANN • CNN • RNN • LSTM • Feature Engineering • Feature Selection and Extraction • Tableau Seaborn • Matplotlib

### MLOPS TOOLS

MLflow • CI/CD pipeline • CircleCi

### PROGRAMMING LANGUAGES

Python • C++ • MySQL • JavaScript • NoSQL

### PYTHON FRAMEWORKS AND PACKAGES

NumPy • Pandas • Seaborn • Matplotlib • SciPy • Scikit-Learn • TensorFlow • Keras

### WEB DEVELOPMENT

HTML • CSS • MySQL • Flask • JavaScript

### DATABASES

MySQL • MongoDB

### CLOUD DEVELOPMENT AND CONTAINERS

AWS EC2 • Heroku • Render • Railway • Netlify • Git • Docker

## EDUCATION

### RGPV UNIVERSITY

BACHELOR'S IN COMPUTER SCIENCE

Aug 2019 - Present | Bhopal | Cum. GPA: 9.08 / 10.0

## CERTIFICATIONS

- TensorFlow Developer (ZTM Academy)
- Data Science Certification (Pierian Data Inc.)
- Python Programming and OpenCV (Google Developer Club)
- Advanced SQL (HackerRank)

## SOFT SKILLS

- Adaptability • Fast Learner • Problem Solving
- Time Management
- Communication • Leadership

## INTERESTS

AI • ML • DL • CLOUD COMPUTING