

Siddhant Rajhans

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SUMMARY

Machine learning researcher with proficiency in Python programming and data analysis. Experienced in developing and deploying machine learning and deep learning models. Familiar with CI/CD pipelines and GitHub for version control and collaboration. Passionate about communicating research findings and collaborating on interdisciplinary projects.

EDUCATION

Bachelor of Technology in Computer Science

2019 – 2023

Swami Rama Himalayan University

Dehradun

All India Senior School Certificate Examination (AISSCE)-12th

2018 – 2019

The Cambridge International School

Delhi

RESEARCH PUBLICATIONS

- **Yoga and Artificial Intelligence: A Review of The Potential Applications of AI in Yoga Research and Practice for Neurological Disorders**
International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC)
Volume: 12, Issue: 2, ISSN: 2321-8169
- **Holistic Approaches for Sleep Pattern Enhancement using AI & Yoga: A Comprehensive Scientific Approach**
IEEE, 2023
- **Machine Learning and Artificial Intelligence in Cybersecurity: Insights and Solutions**
Springer, ICSPN 2023
Paper ID: 57

PROFICIENCIES

Programming Languages: Python (Pandas, NumPy, Scikit-learn), Dart (Flutter)

Data Analysis & Visualization: Matplotlib, Seaborn, Plotly, Tableau

Machine Learning & Deep Learning: TensorFlow, PyTorch, Keras, mlflow

Database Management Systems (DBMS): MySQL, PostgreSQL, MongoDB

Tools & Platforms: Git, Docker, AWS, Firestore

PROJECTS

Heart Disease Prediction App | *Python, Scikit-learn, Streamlit*

- Developed a web application to predict heart disease likelihood based on clinical parameters
- Trained a machine learning model (Logistic Regression) achieving an accuracy of 88.52%
- Deployed the app on Streamlit: <https://heart-diesase-classification.streamlit.app/>
- Dataset: <https://archive.ics.uci.edu/ml/datasets/heart+Disease>
- Repository: https://github.com/siddhant-rajhans/Heart_diesase_classification

Multi-class Dog Breed Classification model | *Python, TensorFlow 2.15*

- Built a multi-class image classifier using TensorFlow 2.15 and TensorFlow Hub
- Used transfer learning with MobileNet V2 from TensorFlow Hub
- Setup input shape to the model: [None, 224, 224, 3]
- Setup output shape of the model: 120 (number of dog breeds)
- Model: <https://www.kaggle.com/models/google/mobilenet-v2/TensorFlow2/130-224-classification/2>
- Building model with MobileNet V2 from TensorFlow Hub
- Total params: 5,552,953 (21.18 MB), Trainable params: 120,240 (469.69 KB), Non-trainable params: 5,432,713 (20.72 MB)
- Dataset: <https://www.kaggle.com/c/dog-breed-identification/data>
- Competition Link: <https://www.kaggle.com/competitions/dog-breed-identification>
- Repository: <https://github.com/siddhant-rajhans/Dog-Breed-Identification>

CERTIFICATES

Machine Learning - Stanford Online, Coursera Grade Achieved: 95.68%	2024
Machine Learning - Internshala Grade Achieved: 95%	2022
Python for Data Science - IBM	2020

INITIATIVES AND AWARDS

Hosted few workshops for computer science freshers of B.tech and BCA. Some of them are:

- Hosted a successful event on **web development and cyber security** in 5th semester
- Hosted an event on **Git and Github** in 6th semester

2022

Awards

Web-development

College Hackathon

07/2021

- 1st prize for developing a COVID-19 guidelines and precautions website under 24 hours
- Link: <https://covid-19-by-sid.netlify.app/>

Panel Discussion

IBM

05/2022 – 05/2022

- 1st position in panel discussion on "Security of online transactions!"