

# Sarthak Siddhant Bharadwaj

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## EDUCATION

### Master of Science in Computer Science

Graduation: Expected May 2025

- GPA: 4.0/4.0
- Awarded Global Merit Scholarship

Colorado State University (CSU), Fort Collins, CO

### Bachelor of Technology in Information Technology

Graduation: June 2023

- CGPA:9.56/10
- Awarded merit scholarship Thrice in three years by the State Govt. (Annually)

Odisha University of Technology and Research (OUTR), India

## SKILLS

**Operating Systems:** Windows, Mac OS

**Programming:** Python, CPP, SQL, HTML, CSS

**Libraries Used:** TensorFlow, PyCharm, NumPy, Panda, Matplotlib, Scikit Learn

**Software:** Anaconda, Jupiter Notebook, Microsoft Office, Eclipse, PyCharm

**Language:** English, Hindi, Odia

## Internships

### Summer Research Intern, IIT Bhubaneswar, India

May 2022

- Assisted a PhD scholar in developing a model to detect vehicles disobeying traffic rules using Machine Learning algorithms.
- Collaborated with the BBSR Municipal Corporation (BMC) to collect data to track traffic anomalies.
- Preprocessed data on Vehicle IDs and the anomalies to help the model detect errors. Cleaned the data using machine learning algorithms and labelling. Also, annotated the pre-recorded videos collected from BMC.
- Learned about the compliance of the use of YOLO and CNN RNN to detect anomalies from the videos.

### Project Intern, Tata Consultancy Services (TCS), Kolkata, India (Team size: 2)

June 2021

- Developed a recommendation system showcasing products on sale on e-commerce sites based on customer ratings/preferences.
- Worked on back-end development. Learned to implement SK-learn, seaborn, matplotlib, NLTK, Pandas, NumPy, Flask

### Intern Trainee, BSNL, Bhubaneswar, India

May 2020

- Mentored by BSNL trainers on the company's operations and contemporary technologies used.
- Acquired a foundational understanding of computer networking and its real-time use.

### Intern, PIE Rooms, Bhubaneswar, India

December,2019

- Worked towards improving customer awareness and customer acquisitions through online and offline branding.
- Raised funds for various events, helped develop the company's social presence and built the customer base by enhancing the branding. Organized events and attracted customers with discounts and freebie marketing strategies.

## Academic Project

### 1. Quantitative Measurement of the impact Of Security Breaches, CSU (Team Size:3)

Sept 2023 – December 2023

- Literature review of work done in the field till date.
- Proposed our Model (TSS) that provides quantitative measurement of the impact of breaches after modification of previous version and metrics proposed by Prof Yashwant Malaiya

### 2. Kidney and Heart Disease Prediction, OUTR (Team size: 4)

November 2022 – March 2023

- The project aims to develop a model to extract available data from the diagnosis and predict future kidney/heart ailments in patients while in the early stages. This detection would pave the way for preparing the treatment plan.
- To essay this role, the group used Machine Learning algorithms Logistic Regression, KNN, Naïve Bayes, SVM, and Random Forest to predict chronic kidney disease progression over time. A dataset consisting of patient records of the past ten clinical years was used to train the model.
- Predominantly collected, cleaned and pre-processed ground data. Managed the back-end development of the model.

## Certifications

- "Java SE 11", Oracle Certified Professional, Oracle, August 2022
- "Cyber Security Essentials" and "Python Essentials 1", offered by CISCO, July 2022
- "Introduction to Cyber Security", CISCO, June 2022
- "Programming for Everybody" and "Python Data Structures", offered by the University of Michigan, Coursera, December 2020
- "Internet History, Technology, and Security", offered by the University of Michigan, Coursera, November 2020