

Chandreshwar Vishwakarma

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Education

M.Tech in Computer Science

Aug. 2021 - Present

Indian Institute of technology Bhubaneswar CGPA:7.56/10.00

Odisha, India

Coursework: Cloud Computing, Network System and Security, Image and Video Processing, Advance Algorithm, Software Testing and Verification, Software Engineering, Digital Forensic, Machine Learning and Data Analytics.

B.Tech in Computer Science and Engineering

Aug. 2017 - Aug. 2021

Kashi Institute of Technology, Mirzamurad CGPA:7.8/10.00

Uttar Pradesh, India

Coursework: Operating System, DataBase Management System, Computer Network, Theory of Computation, Algorithm, Digital Logic Design, Computer Organization and Architecture.

Experience

Indian Institute of Technology Bhubaneswar

Bhubaneswar, India

Teaching Assistant, Computer Science and Engineering

Oct. 2021 - Present

- Handled more than 100 students for assignment checking, grading, and setting the assignments.
- Contributed to doubt-solving sessions for students in programming and data structures.

Projects

A heart rate estimation using machine learning approach | Dr. Debi Prosad Dogra

Ongoing (MTP)

- Remote physiological measurement approach which do not require any physical contact with skin.
- We adopt an algorithm that utilizes the ICA from physiological signal derived from facial video.
- This project uses different machine learning algorithm to minimize RMSE value.

Real time Face Mask Detection | Dr. P.K.J.Mohapatra

Dec. 2021

- Engineered a supervised learning algorithm using MobileNetV2 architecture and OpenCV library.
- Derived a real-time light-weight model with low power and computation requirements.
- Developed model can successfully detect presence of mask on face with accuracy of 99%.

Real time Crack Detection using CNN | Dr. Niladri Bihari Puhan

Nov. 2021

- Proposed a deep learning algorithm using VGG16 architecture and OpenCV library.
- Detected real-time shortcomings in the structural integrity of a concrete surface.
- Optimized the machine learning model to achieve accuracy of 97% on input data.

Lower Back Pain Detection | Dr. P.K.J.Mohapatra

Oct. 2021

- Determined the presence of lower backpain in patients utilizing x-ray of spinalcord.
- Implemented Random Forest on the basis of maximized performance achieving 97% accuracy.
- Analyzed multiple algorithms for maximum results on the basis of accuracy achieved in test data.

Smart Waste Management System | B.Tech. final project

May 2021

- Built classifier for wet and dry garbage to be segregated into different containers.
- Aggregated data from various sensors ,channeled to and computed through arduino module
- Reduced waste blending by 80% and minimized human intervention for seperation.

Technical Skills

Certifications: Android Oreo Developer | Udemmy , Linux for Absolute Beginners | Udemmy

Programming Languages: Java, C++, C, Python

Developer Tools: Android Studio, Netbean, Jupyter Notebook,Google Colaboratory

Technologies: Android App Development, Machine Learning,Git VCS, GitHub, Linux OS, Spring Framework

Extra-curricular Activities

- Solved more than 250 problems on various platforms combined like LeetCode, GFG and CodeStudio. April 2022
- Member of event team management (College Fest) 2018 - 2021
- Member of hospitality team in Ankuraan'18 (College Fest) Oct. 2018
- Head of registration desk of Anugoonj'19 (Cultural Fest) Feb. 2018