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

Named Entity Recognition in Medical Abstract | *Auro Tripathy & Dr. Debi Prasad Dogra*   **Ongoing MTP**
- Medical diagnosis relies on discovering and mining entities in electronic medical information.
- This study identified new EMR medicines and indicators using the Google BERT-based BioBERT model.
- The experiment, designed for healthcare system applications, could boost clinical decision-making research in the future.

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 lightweight model with low power and computation requirements.
- Developed model can successfully detect the presence of mask on face with an 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 an accuracy of 97% on input data.

Lower Back Pain Detection | *Dr. P.K.J.Mohapatra*   **Oct. 2021**
- Determined the presence of lower back pain in patients utilizing an x-ray of the spinal cord.
- 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 separation.

Technical Skills

Certifications: Android Oreo Developer | *Udemy* , Linux for Absolute Beginners | Udemy
Programming Languages: Java, C/C++, Python
Developer Tools: Android Studio, Netbean, Jupyter Notebook, Google Colaboratory
Technologies: Android App Development, Machine Learning, Natural Language Processing, 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