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*

B.Tech in Computer Science and Engineering **Aug. 2017 - Aug. 2021**
Kashi Institute of Technology, Mirzamurad CGPA:7.8/10.00 *Uttar Pradesh, India*

Experience

ML/AI Intern **Bhubaneswar, India**
HPC Links *Sept. 2022 - May. 2023*

- Developed an Odiya NLP model with the ability to translate speech to text and vice versa.
- Collaborated with an AI engineer to create dependable, bug-free, and well-engineered code for PubMed.
- Enhanced the NLP model's efficiency, achieving a 98% success rate in extracting key entities from medical studies.

Indian Institute of Technology Bhubaneswar **Bhubaneswar, India**
Teaching Assistant, Computer Science and Engineering *Oct. 2021 - Ongoing*

- 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 domain specific research paper | *Dr. Debi Prasad Dogra* **Ongoing MTP**

- Developing a new discovery method and algorithm to mine important entities in research papers.
- Identifying new entities and keywords through the use of a Transformer-based model.
- Improving the accuracy of an NLP model that enables easier analysis of research papers for a better understanding.

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

Programming Languages: Java, C/C++, Python, MATLAB
Developer Tools: Android Studio, Netbean, MATLAB, Jupyter Notebook, Google Colaboratory
Technologies: Android App Development, Machine Learning (ML), Natural Language Processing (NLP), Git VCS, GitHub, Linux OS, Spring Framework
Certifications: Android Oreo Developer | *Udemy ,* Linux for Absolute Beginners | Udemy

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