

Deepak Kumar

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EDUCATION

- **Yeshwantrao Chavan College of Engineering** Nagpur
B.E in Information Technology; CGPA: 8.67/10 *Expected 2021*

PROGRAMMING SKILLS

- **Languages:** C/C++, Python, JavaScript(novice)
- **Libraries:** Tensorflow, Pytorch, Keras, Numpy, Scikit-learn, Pandas, OpenCV
- **Others:** Machine Learning, Deep Learning, Competitive Programming, Web Development

EXPERIENCE

- **KDE-GCompris** Remote
Student of KDE *January 2020 - February 2020*
 - Implemented multiple datasets design to 5+ activities.
 - Worked on some code refactoring tasks, fixing typos and adding additional features to some of the activities.
- **IIT Kharagpur** Remote
Kharagpur Winter of Code Mentor *January 2020 - February 2020*
 - Mentored over 20+ students for a blog web app project based on Django to make their first contribution to open source projects.
 - Students were able to complete some of the challenging tasks so as to add the comment section, implement question forum, add a search bar to the application etc.
- **CircuitVerse** Remote
Google Code In Mentor *December 2019 - January 2020*
 - Mentored over 100 high-school students by creating engaging tasks that helped to developed interest and solve challenging issues by contributing to the organization.
- **Bizlers Technologies** Remote
Software Engineering Intern *May 2019 - Present*
 - Implemented auto-completion suggester using elastic search for android application.
 - Trained a deep learning model over 4k+ images with 70 percent+ accuracy to recognise the license plate of a car.

PROJECTS

- **Image Deblurring Using GAN (Ongoing):** Performing analysis of different datasets to prepare the best data for the model. Undertaking a study of different network architecture and various methods to deblur images.
- **Android Malware Detection through APIs used:** Undertook a comparative study of potential classification tools on the problem of classification of Android Apps as Malicious/Non-Malicious by multiple benchmark datasets. Performed STATIC ANALYSIS of 500+ APKs to detect malware using APIs. Implemented a deep learning model with 60 percent+ accuracy to classify APKs as benign/malware.
- **Image Caption Generator:** Used Keras (Python) to develop a model on FLICKR Dataset to generate caption of given images. Obtained accuracy of 35 percent+ on test data.
- **Facial Expression Recognition using CNN:** Used Keras (Python) to implement a facial expression recognition system using deep learning. Implemented a Convolution Neural Networks to achieve 90 percent accuracy on test data.
- **Blog Web App:** Developed an Web App using Django. Implemented user-authentication features (login/logout). Also added features to create a profile, post a blog, delete and update the post. Deployed the Web App on Heroku.

ADDITIONAL EXPERIENCE AND ACHIEVEMENTS

- Won 2nd prize among top 10 teams at Innovation Management Leadership Programme(IMLEAP) organized by **Siemens Healthineers**.
- Achieved rank 3999 in **Google Hash Code 2019**.
- Selected as a member for **Innovation Student Council** at Yeshwantrao Chavan College of Engineering based on high-achieving and technically strong undergraduate students.
- Elected as a **Secretary** for ITECHROOTS 10.0 at Yeshwantrao Chavan College of Engineering.