

Ratan Singh

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EDUCATION

GNDEC, BIDAR

Bachelor of Engineering (B.E),
Computer Science & Engineering
2015 - 2019

SKILLS

PROGRAMMING

- Python • C/C++
- Java • JavaScript • SQL

FRAMEWORK/LIBRARIES

- Git • OpenCv
- PyQT • Matplotlib
- Pandas • Sklearn
- Keras • Tensorflow
- Flask • Django

EXTRA CURRICULAR

ACTIVITIES

- Published Ratan Singh Dharra et al, 2019 . Using Deep Convolutional Neural Network to Avoid Vehicle Collision. IRJET Journal volume6 issue6 pp. 626 -633.
- Hosted multiple seminars and presented in webinars.
- Cracked "IBM Hack Challenge - A Mega Hackathon 2018" to finals.
- Competed in "Dunhumby Code Combat" finals hosted by Techgig.

PUBLICATIONS

- **Ratan Singh Dharra et al, 2019** . Using Deep Convolutional Neural Network to Avoid Vehicle Collision. IRJET Journal volume6 issue6 pp. 626 -633.

LINKS

Website:// www.rsdharra.com
 LinkedIn:// [Ratan Singh Dharra](#)
 Twitter:// [@Ratan_Singh98](#)
 Github:// [ratansingh98](#)
 HackerRank:// [Ratan_Singh98](#)
 TechGig:// [ratansingh30](#)

EXPERIENCE

INTOZI | SOFTWARE DEVELOPER

Jan 2020 – Jun 2020 | Gurugram, Haryana, India

- Presented product demo to various clients including Addl. CP of Mumbai.
- Developed complete deployable detection based SDKs and software installers along supervising interns.
- Analyzed and optimized the performance of products using various profiling tools.

INTOZI | COMPUTER VISION INTERN

Jul 2019 – Dec 2019 | Gurugram, Haryana, India

- Revamped the mapping algorithm to convert and map RADAR's world coordinate to a pixel coordinate.
- Developed calibration software for various IoT and computer vision-based products from scratch.
- Assisted senior developer on optimizing ongoing product which led to approx 150% increase in performance.

HI-IDEALS | WEB DEVELOPMENT INTERN

Jan 2019 – Mar 2019 | Bidar, Karnataka, India

- Worked on various areas of web designing and development.
- Completed project using java based groovy on grails and web technologies.

PROJECTS

ATTENDANCE MANAGEMENT SYSTEM | Jan 2020 - Jun 2020

- Developed desktop scalable application that allows admin to add and monitor multiple cameras.
- Feature like alert, shifts,data exporting, and holiday management can be tailored for targeted users.

AUTOMATIC NUMBER PLATE RECOGNISER | Aug 2020 - Dec 2020

- Developed GUI based software that allows users to set and monitor multiple cameras.
- Implemented vehicle tracking algorithm which led to a significant decrease in performance overhead.

TRAFFIC VIOLATION SYSTEM | Aug 2019 – Sep 2019

- Optimized code-base by changing architecture to multiprocessing and multi-threading pipelines.
- Assisted senior developer for implementing complex logic involving buffer memory. Worked on complex sensors such as LIDAR and RADAR for speed detection.

FACE RECOGNITION ENGINE | July 2019 – Sep 2019

- Developed GUI software from scratch that allows users to connect and configure security cameras.
- Implemented tailor-made algorithms and models which gave a recognition accuracy of over 95% on a detected face with the same environment.
- Created flexible a database to store information of registered users while maintaining logs.

ALCOVISOR | July 2019 - July 2019

- Developed raspberry pi based GUI based software which allows traffic police to check the alcohol level of the driver.
- Linked camera and printer to capture image and printing bill on-spot.