

RATAN SINGH

Computer Vision Engineer

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CARRIER OBJECTIVE

To work for an organization which provides me the opportunity to improve my skills and knowledge to grow along with the organization objective.

EDUCATION

Guru Nanak Dev Engineering College, Bidar

August 2015 - July 2019

Bachelor in Technology

Department of Computer Science and Engineering

TECHNICAL STRENGTHS

Programming Language

Python, Java, C/C++, SQL.

Operating System

Windows, Ubuntu, Debian, Raspbian OS.

Framework & Libraries

OpenCv, DLib, PyQt, Sklearn ,Keras, Tensorflow, Darknet.

WORK EXPERIENCE

Intozi Tech Pvt Ltd, Gurugram

Computer Vision Engineer

Jan 2020 - Present

- Presented product demo to various clients including Addl. CP of Mumbai.
- Developing complete deployable softwares with installers.
- Working on various computer vision and DL algorithms to optimize products.

Intozi Tech Pvt Ltd, Gurugram

Computer Vision Intern

July 2019 - Jan 2020

- Developed calibration software for various IOT products from scratch.
- Built various computer vision based desktop from scratch.
- Worked on various computer vision and DL algorithms to optimize products.

Hi-Ideals Technologies Pvt Ltd, Bidar

Web Development Intern

Jan 2019 - Feb 2019

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

SMTGROUP, Indore

Android And Web Intern

Sep 2017 - Sep 2017

- Collaborated in building android app and websites from the scratch.
- Built API for a seamless connection between website and app using PHP and postman.

PROJECTS

Intelligent Traffic Management System

Worked on developing a complete package of ITMS which includes object/people monitoring, geofencing, ANPR, and alert generation. Implemented and integrated various functionalities in a single workstation.

Automatic Number Plate Recogniser

Trained OCR and developed GUI software which allows users to set and monitor multiple cameras. Implemented vehicle tracking to avoid duplication. Created database for maintaining logs of vehicle.

Traffic Violation System

Optimized working of the system by changing codebase to multiprocessing and multi-threading processes. 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

Developed GUI software from scratch that allows users to connect and configure security cameras. Implemented deep learning and facial landmarks algorithm to train models which gave an accuracy of over 95% on a detected face with same environment. Created database to store information of registered users and for maintaining logs of detected people.

Alcovisor

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

ACHIEVEMENTS

- **Published** Ratan Singh Dharra et al, 2019 . Using Deep Convolutional Neural Network to Avoid Vehicle Collision. IRJET Journal volume6 issue6 pp. 626 -633.
- **Secured Scholarship** from udacity for "Secure and Private AI" Nano degree program.
- **Shortlisted** for "IBMHackChallenge- A Mega Hackathon" finals.

LINKS

Github	: RatanSingh98
LinkedIn	: Ratan Singh Dharra
Hacker Rank	: ratan_singh98

Notice Period : can join on immediate basis.

Declaration : I hereby declare that above written particulars are true to the best of my knowledge and belief.

(Ratan Singh)