KUSHASHWA RAVI SHRIMALI

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EDUCATION

International Institute of Information Technology Naya Raipur *July 2016 - Present*
Bachelors in Technology CGPA: 9.4/10.0
Department of Computer Science and Engineering

Kendriya Vidyalaya STPS Suratgarh *July 2014 - June 2016*
Senior Secondary High School, Class XII. Overall Percentage: 94.8

Kendriya Vidyalaya STPS Suratgarh *July 2012 - July 2014*
Secondary High School, Class X. Overall Percentage: 95.0

CARRIER OBJECTIVE

To work for an organization in the field of Computer Vision and Deep Learning which allows me to furnish my skills and grow along with the organization objective.

PROJECTS

Series of Blogs on PyTorch C++ API
The project discusses important elements of PyTorch C++ API and practical applications of Deep Learning projects implemented using Libtorch. The blogs are published at my portfolio website.

Implementation of Portrait Bokeh Mode using Deep Learning and Computer Vision, on Faces
The project aims on implementing Portrait Bokeh Feature using OpenCV and PyTorch. It automatically detects the faces and blurs the background. The code will be open sourced soon.

Book Dimensionality Calculation using Homography Matrix and QR Code Detection
Mentor: Dr. Satya Mallick, CEO OpenCV, Big Vision LLC and LearnOpenCV
The project aims at dimensional measurement of a book cover using Homography and Ratio comparison in OpenCV. The project has been open sourced at my GitHub profile.

Paper Implementation of No Reference Image Quality Assessment (BRISQUE NR-IQA)
Mentor: Dr. Satya Mallick, CEO OpenCV, Big Vision LLC and LearnOpenCV
Implementation of NR IQA Method (BRISQUE) in OpenCV using C++ and Python. The project uses LIBSVM and OpenCV libraries. NumPy Library in Python is used for vectorization. The project has been open sourced at my GitHub profile.

OpenCV Contribution: BRISQUE Quality Module
Partner: GitHub user @clunietp
Contributed BRISQUE algorithm to the quality module in OpenCV's extra modules. The source code was written in C++ and tested on Android, Java, Python Bindings, Windows, Linux environments successfully. This project was my first major contribution to one of the biggest Computer Vision Library: OpenCV.

Cartoonification of Image using Image Processing

The project aims on cartoonifying faces using Image Processing Algorithms. I did this project to learn more about Image Processing and it's algorithms. The project has been open sourced at my GitHub profile alongside a report. It has been implemented in both C++ and Python.

TECHNICAL STRENGTHS

Computer Vision and Deep Learning Libraries	PyTorch, Tensorflow, OpenCV, NumPy
Software & Programming Languages	Linux, C, C++, C, Python, Javascript

WORK EXPERIENCE

Rapid Rich Object Search (ROSE) Labs, NTU Singapore   May 2019 - July 2019
Visting Research, Computer Vision and Deep Learning Intern   *Prof. Alex Kot*

· On-site internship at ROSE Labs, NTU Singapore under Prof. Alex Kot (Director, ROSE Labs). Worked on Automatic License Plate Recognition technique in real time using PyTorch in both C++ and Python. Used YOLO based network and achieved 85% accuracy for Single Line License Plates and Double Line License Plates (tested on real time dataset of Singaporean Vehicles).

Big Vision LLC and LearnOpenCV, California   March 2018 - May 2019
Computer Vision and Machine Learning Intern   *Dr. Satya Mallick, CEO*

· Worked from home in writing blogs and working for clients for Big Vision LLC. Became OpenCV Contributor during my internship, and worked on several projects using C, C++ and Python.

Indian Institute of Information Technology and Management, Gwalior   December 2017 - January 2018
Visting Student Researcher   *Prof. Anupam Shukla*

· On-site internship at IIITM Gwalior and worked on A* Search Algorithm to understand communication between a robot and a UAV.

OpenStudy, Palo Alto   June 2013 - June 2016
Ambassador   *Dr. Preetha Ram and Dr. Ashwin Ram*

· The responsibilities included to actively promote the website and it's cause amongst the students and to guide them through the beginning steps for the website. Made sure the smooth following of Code of Conduct of OpenStudy. Also worked as a leader of OpenStudy Newsletter Programme for two editions as well as Designer in one edition.

Student Activity Concil, IIIT Naya Raipur   Science and Technology Head

Coordinated clubs running under SAC: Artificial Intelligence and Machine Learning Club, The Society of Coders. Also became the Technical Coordinator of Annual Technical and Cultural Fest - TechNovate 2019.

ACADEMIC ACHIEVEMENTS

Runner Up at Industry Academia Meet in Project Presenation in the field of Data Analytics at IIIT-NR (Home Institute)

Provided Scholarship by the home institute (IIIT-NR) for Academic Performance for 3 Consecutive Years.

Graduated with 95%+ marks in Science and English Subjects at the Senior Secondary High School Level.

Got 22,000 Rank in Joint Engineering Entrance Exam (Mains) out of 1.2 Million Students.

Achieved 1st Rank in the State in a Competition Conducted by State Government.

Participated in National Science Congress to present our project on Agriculture Advancement.

EXTRA-CIRRUCULAR

Co-Organized TechNovate 2019 - Institute's Technical and Cultural Festival

Volunteered in TechNovate 2018

Awarded in All India Essay Writing Competition held by UNIC (India and Bhutan), at Shri Ram Chandra Mission Ashram

Debate competition on "Does RTI play vital role in removing corruption from India?" - Winner in against to the motion

Runner up in Article Writing in Connaissance 2k16 (Literary Fest of the Institute)

Won Coding Competitions at TechNovate 2018 - Game of Codes and Breaking Bugs

Special Mention in Chhattisgarh Mock Indian Parliament as IIIT President

PERSONAL TRAITS

A disciplined person.

Highly motivated and eager to learn new things.

Strong motivational and leadership skills.

Ability to work as an individual as well as in group.

Love to share knowledge.