

# Rasleen Kaur

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I am a Python enthusiast and have interests in applications of Machine Learning and Computer Vision. Being an inquisitive and an person who never gives up and faces every challenge life gives inevitably, I have always been a keen learner. I have good Decision-making skills and Whatever task is presented to me, I strive to do the best I can to get the best results.

## Skills

**Programming:** Python • C • C++ • Java

**Web:** HTML • CSS • Bootstrap • Django • Latex • PostgreSQL

**Libraries:** OpenCV • Scikit-Learn • NLTK • Pandas • Numpy • Matplotlib • Scipy

## Experience

**RESEARCH AND DEVELOPMENT INTERN**, | BALLISTICS DIVISION, FORENSICS SCIENCE LABORATORY (GOVT. OF INDIA) June 2018 (Present)

Developing a software which will help linking FIRs filed at different police stations by matching microscopic images of bullets and to find out if they are fired from the same firearm. • Designed various Image thresholding and Image Segmentation Algorithms for masking out and preprocessing the breech face of bullet that is generally not required in comparison. • Used scikit-image library to extract the valid correlation areas by using Feature Extraction modules • Researched and implemented Research Papers including 'Automatic Matching of Bullet Land Impressions' by Iowa State University, based on Machine Learning and Image Processing • Technical Stack Used: Python, Machine Learning, OpenCV, Matplotlib, Numpy, Scipy, scikit-learn

**Mentor: Dr. Avinash Srivastava, SSO @ Ballistics**

## Projects

**BALLISTICS RECOGNITION TOOL @ SMART INDIA HACKATHON 2018**, | Created an application for a real world problem proposed by Government of Delhi to compare two bullets and find similarities in them. Technology Used: Python, Machine Learning, CNN and OpenCV March 2018 Pune, India

**Won Deloitte Award for Best Innovation Certificate**

**REDACCS @ ANGELHACK 2018**, Developed a mobile app in which user will let a user upload image of accidents happened recently in their vicinity, for the app to check for accident-prone areas and marks them, generates a detailed report and send it to the concerned authorities. Technology Used: Python, Machine Learning, HTML/CSS/Bootstrap, Django May 2018, Delhi [Link](#)

**THE SOCIAL NETWORK @ INOUT 5.0**, App with virtual assistant for helping you gain skills to communicate properly with professionals. October 2018 Bangalore, India [Link](#)

**Portfolio**, My personal portfolio website that explains 'Who Am I'. Technology stack: HTML/CSS/Bootstrap, Django March 2019 [GitHub](#)

## Education

**B.Tech in Computer Science and Engineering** | B.M Institute of Engg. and Technology | IPU New Delhi, India 2016- 2020  
CGPA-8.65

**HIGH SCHOOL**, S.S MOTA SINGH SR. SEC. MODEL SCHOOL, New Delhi, India 2016  
Higher Secondary- 84.83 Secondary marks- 83.60

## Course Work

**Machine Learning A-Z**, by Kirill Eremanenko-Udemy (in progress)

**Django 2.1-Web Developer Bootcamp**, by Nick Walton-Udemy 2016

[Certificate](#) 2017

**Core Java**

[Certificate](#)

## Others

**COMMUNITY VOLUNTEER | PyData Delhi**, PyData conferences bring together users and developers of data analysis tools to discuss how best to apply Python tools. The team aims to be an accessible, community-driven conference, with tutorials for novices and advanced topical workshops for practitioners. I made the efforts to manage a crowd of around 280 attendees at the Annual PyData Conference 2018.

May 2018  
(Present)

**Member | Community Volunteer @ Social Media Team | LetsPy Delhi**, It is a Python Programming Bootcamp, launched by Girsript Foundation for people who are new to the language. The 3 days BootCamp tells an overview of getting started, let attendees build some small applications using Python and helps them in knowing the use of Python in fields like Data Science, Machine learning, Cloud, Cryptocurrencies and Artificial Intelligence.

Feb-Mar '19  
Certificate