

Rasleen Kaur

DATA SCIENCE ENTHUSIAST

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Skills

Programming	Python, C/C++, Java
Web	HTML/CSS, JS, Bootstrap, Django, Flask, PostgreSQL
Modules	OpenCV, Scikit-Learn, NLTK, Pandas, Numpy, Matplotlib, Scipy, Gensim, Keras, Tensorflow
Tools	Jupyter notebook, MS Excel, Google Charts, Heroku, AWS, Protractor, Selenium, MySQL, Git, Gerrit

Work Experience

BALLISTICS DIVISION, FORENSICS SCIENCE LAB (GOVT. OF INDIA)

Rohini, India

RESEARCH AND DEVELOPMENT INTERN

Jun 2018 - Jul 2019

- Developed as of software which will help linking FIRs fired at different police stations by matching microscopic images of bullets and to find out if they are fired from the same firearm.
- Created a Dataset of 10000 bullet images at the lab, managed and labelled it accordingly.
- 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.
- Researched and implemented Research Papers including 'Automatic Matching of Bullet Land Impressions' by Iowa State University, based on Machine Learning and Image Processing.
- Set up the database using SQL and stored all the images in it using BLOB and retrieve them using specific tags like FIR number or bore/calibre.
- Technical Stack Used: Python, Machine Learning, OpenCV, Matplotlib, Pandas, Numpy, Scipy, scikit-learn, SQL.

Harman Connected Services Pvt. Ltd.

Gurugram, India

PROJECT INTERN

Jun 2019 - Aug 2019

- Developed the Front end interface of the main project 'IoTrust Security Platform'.
- Developed many Python Automation scripts for to automate the jmx files on Jenkins server. Also designed the Front End of the software and tested it in Java and Python.
- Technical Stack Used: Python, Java, HTML/CSS, Django JS, ElementTree, Protractor, TestNG, Selenium.

Apli.ai

Bombay, India

NLP ENGINEER

Sept 2019 (Present)

- Contributing in building a Mock Interview platform that can analyse facial expressions of student and suggests modules and tips using Speech Recognition and Text extraction to gain better skills.
- Implemented NER, Word2vec, Semantic Similarity Algorithms.
- Technical Stack: AWS, NLP, Python, Tensorflow, Keras, DeepLearning, Artificial Intelligence.

Projects | Hackathons

All India Women's Hackathon 2019

Bangalore

DHARINI:-LINK

Jun 2019

- Developed a web app named 'Dharini' for helping Sex workers, curb their physical and mental health, as well as a Geofencing to tell them if the remote location is safe or not.
- Led a team of three awesome coders at All India Women's Hackathon 2019.
- Technology Used: Python, Machine Learning, NLP, HTML/CSS, Flask, Here Geofencing

INOUT HACKATHON 5.0

Bangalore

THE SOCIAL NETWORK:-LINK

Oct 2018

- App named as 'THE SOCIAL NETWORK' with virtual assistant for helping you gain skills to communicate properly with professionals.
- Technology Used: Python, Natural Language Processing, OpenCV

Sentiment Analysis

Bombay, India

APLI.AI:-LINK

Sep 2019

- Collected various datasets for sentiment analysis from the web, including Twitter sentiment dataset, Imdb movie reviews, restaurant reviews, Albadb movie reviews and combined them in a single dataset by preprocessing it for a single datatype of 5000 files.
- Trained the model on Keras using Tensorflow as backend.
- Technology Used: Python, Natural Language Processing, OpenCV, ElementTree, XMLParser, Pandas, Keras, Tensorflow

Accident Detection and Notification Alert System

Bombay, India

APLI.AI:-LINK

Oct 2019

- Trained a Tensorflow model for the detection of accidents by collision of cars, in real time footages.
- Extract License plates from the detection images and extract the number using OCR.
- Setup the backend using NodeJS and used socket.io for sending real time messages on mobile phones with exact geo-coordinates.
- Send SMS on mobile phones registered with Twilio to the authorities with location and time of the accident.
- Technology Used: Python, OpenCV, Pytesseract, Natural Language Processing, Data Visualization, TensorFlow, NodeJS, socket.io, Twilio API.

Education

B.M Institute of Engineering and Technology(GGSIPU)

Sonepat

B.TECH IN COMPUTER SCIENCE AND ENGINEERING

Sep. 2016 - Jun. 2020

- CGPA - 8.65

S.S MOTA SINGH SR. SEC. MODEL SCHOOL

New Delhi

HIGH SCHOOL

Apr 2005 - Mar 2016

- CLASS XII - 84.83/100
- CLASS X - 8.8/10

CourseWork

courses and self learning :-

- Algorithms Data Structures
- Applied Data Science with Python
- Django 2.1-by udemy
- Object Oriented Programming
- Training in Core JAVA Programming

OutReach

PyData Delhi

New Delhi

CORE TEAM MEMBER

May 2018 (Present)

- PyData conferences bring together users and developers of data analysis tools to discuss how best to apply them, to meet evolving challenges in data management and visualization.
- I made the efforts to manage a crowd of around 280 attendees at the Annual PyData Conference 2018 where National as well as International Speakers gave novice talks to help the members know more about Data Science.

Honors & Awards

DOMESTIC

- 2018 **3rd Place**, Smart India Hackathon
- 2018 **Deloitte Award for Best Innovation**, Smart India Hackathon:-Certificate
- 2018 **Appreciation Award for great academic performance**, B.M Institute (GGSIPU)

Pune, India

Pune, India

Sonepat, India