

# HIMALAYA MANDAL

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**DATA SCIENCE | TEAM LEADER | PYTHON SCRIPT | MACHINE LEARNING | CYBER SECURITY | BLOCK CHAIN**

## **OBJECTIVE:**

An able, enthusiastic, skilled, and reliable computer technician seeking a position that reflects my experience, skills, and personal attributes including dedication, meeting goals, creativity, and the ability to follow through.

## **EXPERIENCE**

**3<sup>RD</sup> JUNE 2018 TO NOW**

**PYTHON DEVELOPER**, ECLIPSE TECHNOCONSULTING GLOBAL PVT. LTD

**JOB ROLE: PYTHON ANALYST.**

**6<sup>TH</sup> SEPTEMBER 2018 TO 24<sup>TH</sup> APRIL 2019**

**PYTHON ANALYST**, INDIAN CYBER SECURITY SOLUTION

Job role: Python Analyst.

**1<sup>ST</sup> JANUARY 2018 TO 20<sup>TH</sup> MAY**

**INTERN ON MACHINE LEARNING**, FUTURE GROUP

Job Role: Developer (python)

## **SKILLS:**

- Python
- Cyber security
- Machine Learning
- C programming.
- Data analysis and visualization using python.
- Python Security scripting
- Linux(debian)
- OpenCV
- Matplotlib
- Perl Scripting
- Scikit-learn
- Anconda
- AWS (ec2,s3,rds,BlockChain)
- TensorFlow
- Numpy
- pandas
- MySQL
- Mysql ,sqlite,postgresql,mongodb
- Django
- Rest Api
- Deep Learning
- Git
- Scipy
- Cryptography
- Cryptocurrency
- Blockchain
- HTML,CSS,JAVASCRIPT

## EDUCATION:

**2005-2011**

**SECONDARY**, MASANJHAR ADIBASHI HIGH SCHOOL

**PERCENTAGE: 63%**

Board: WBSE

**2011-2014**

**HIGER SECONDARY**, INDPUR GOENKA HIGH SCHOOL

SPECIALIZATION: SCIENCE

Percentage: 63%

Board: WBCHSE

**2014-2018**

**B. TECH**, GURU NANAK INSTITUTE OF TECHNOLOGY

SPECIALIZATION: COMPUTER SCIENCE AND ENGINEERING

CGPA: 7.10

Board: WBUT

## PROJECT:

### **1. Mt -5 cars data analysis using r language**

Duration: 2 months (1<sup>st</sup> June,2017-31<sup>st</sup> July,2017)

Description: Calculate the regression model of mt-5 cars. There is a data set of mt-5 cars. I have to find out the regression model of that. At initial level I faced problem of null value. But I overcome it by filling those values.

Role: Developer

Tools: R studio

Language: R language

Client: Cdac

### **2. Big bazar future sells prediction according to past sells data using python**

Duration: 6 months (1<sup>st</sup> December ,2017 to 1<sup>st</sup> June 2018)

Description: predict clusters of customers by store location. knowing the set of customers that behave evenly will help them target their product promotions accordingly. In this project data wrangling is the main problem. There is too much error in the data. But after filling the data in particular way I am able to solve the problem. Next problem was the predicting. I have been used pca over gmm and kmeans algorithm to solve the problem.

Role: developer (internship)

Tools: anaconda

Language: Python

Client: Future Group

### **3. face recognition using python.**

Duration: 2 months

Description: to recognize face from picture. In this project at first it will click a picture then it will match with existing picture in our computer. It will convert the picture into gray scale using open cv and svm algorithm.

Role: Developer

Tools & Technology: PyCharm & Supervised learning

Language: python

Client: Indian Cyber Security Solution

### **4. Website vulnerability scanner using python**

Duration: Still working on that (1<sup>st</sup> January to now)

Description: It will scan a website and find out those vulnerability which can affect security of that website. At first, we have to bypass the load balancer of a website. So, I have to use change user agent randomly. I used various type of payload to detect those vulnerability.

Role: Developer & team leader.

Team size: 5

Tools: PyCharm, Sublime text 3

Technology: Mechanize, oSCP top 10 vulnerability architecture.

Language: Json, xml, python, sql

Client: Indian Cyber Security Solution

### **5. Mail spoofing**

Duration: 1 month (1<sup>st</sup> January 2019 to 31<sup>st</sup> January 2019)

Description: By using this, anyone can send mail using any type of mail id. For this project I used a server to send those mail. But still, it going to send all mail into spam. So I used google api to make those mail accepted by Gmail and other email service.

Role: Developer

Tools: Sublime text 3

Role: developer & Team leader

Technology: Google spam filter bypass and dmca.

Language: Python & php

Client: Indian Cyber Security Solution

### **6. Creating a New cryptocurrency**

Duration: 5 months

Description: Creating a whole new cryptocurrency called arcturus. Developing the website and the coin from scrape was my responsibility. I used ethereum ico base to create this coin. This project still on development.

Website: [www. Arcturus.com](http://www.Arcturus.com)

Role: Lead Developer Developer

Team size: 5

Technology: Block chain technology , aws ec2, blockchain, Django

Language: Python,html,css , javascript

## 7. StartWrite India

Duration: 8 months

Description: It's a desktop software where kids can learn to write "a,b,c,d" which is made using tkinter and matplotlib as main component. There every letter is dynamic graph using matplotlib.

Website: <https://www.startwriteindia.com/>

Role: Developer

Technology: Block chain technology, aws ec2, blockchain, Django

Language: Python,html,css, javascript

## MY RESEARCH BASED WORK:

### 1. Bezier Curve Algorithm:

It's a Python package which is updated by me from previous bezier package. I have been implemented linear interpolation method on the previous algorithm. Now this package will return points and axes plot as per your requirement. It can ignore some angle like you don't want a curve under 30 degrees. I implemented in startwrite which project I have mentioned before.

Git link: <https://github.com/xhimalaya/brezier.git>

### 2. ICMP Smurf attack detection using neural network.

It's a tool which I made for a phd student from nci(national college of Ireland). It's a server side tool. It can work in real time and also can analyze server log file to identify icmp smurf attack. It's totally made in python with help of keras and tensorflow. I have been created 6 neurons and the accuracy was approx 92% where for this same random forest algorithm was returned accuracy of 78% with 10000 n\_jobs and 1000 nodes with lot more time complexity.

Git link: [https://github.com/xhimalaya/ICMP\\_smurf\\_attack\\_detection.git](https://github.com/xhimalaya/ICMP_smurf_attack_detection.git)

### 3. TELEGRAM CHAT DUMP WITHOUT AUTHENTICATION:

It's a python tool which can download telegram chats only using phone number without any authentication. I used telethon package and server authentication bypass method which solved the problem of otp atlogin. I am not shearing the otp bypass due to privacy issue. Here is the main code but one component I am not shearing.

Git link: [https://github.com/xhimalaya/telegram\\_chat\\_dump.git](https://github.com/xhimalaya/telegram_chat_dump.git)

## CERTIFICATE:

1. BIG DATA ANALYSIS FROM CDAC
2. Certified by Microsoft on Database Fundamental
3. Certified by IIT Mumbai on C programming.

## ACHIEVEMENT

Delivered a speech at IIT Kharagpur on Machine Learning.

## HOBBY

Off road cycling, Photography.

## **ABOUT MYSELF**

I am an organized, efficient and hard-working person, and am willing to discover and accept new ideas which can be put into practice effectively.