

HIMALAYA MANDAL

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NLP | TEAM LEADER | PYTHON PROGRAMING | MACHINE LEARNING | CYBER SECURITY | DATA SCIENCE

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

2ND FEBRUARY 2020 TO PRESENT (CONTRACT BASED JOB)

NLP DEVELOPER, WSE GAMES

JOB ROLE: NLP DEVELOPER.

3RD JUNE 2019 TO 31ST DECEMBER

PYTHON DEVELOPER, ECLIPSE TECHNOCONSULTING GLOBAL PVT. LTD

JOB ROLE: PYTHON ANALYST.

6TH SEPTEMBER 2018 TO 24TH APRIL 2019

PYTHON ANALYST, INDIAN CYBER SECURITY SOLUTION

Job role: Python Analyst.

1ST JANUARY 2018 TO 20TH MAY

INTERN ON MACHINE LEARNING, FUTURE GROUP

Job Role: Developer (python)

SKILLS:

- Python
- Cyber security
- Machine Learning
- Data analysis and visualization using python.
- Data Engineering
- oops
- Linux(debian)
- Colaborative filtering & Recommendation system
- Matplotlib
- Jupyter notebook
- Data Engineering
- Numpy, pandas, scikit-learn,matplotlib etc.etc.
- Mysql ,sqlite,postgresql,mongodb
- Django & Rest api
- Deep Learning
- Git
- Web scraping
- HTML,CSS,JAVASCRIPT
- AWS (ec2,s3,rds,BlockChain,sqs,sns,)
- Big data analysis
- Data Structure

EDUCATION:

2005-2011

SECONDERY, MASANJHAR ADIBASHI HIGH SCHOOL

PERCENTAGE: 63%

Board: WBSE

2011-2014

HIGER SECONDERY, 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 (1st June,2017-31st 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,git

Language: R language

Client: Cdac

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

Duration: 6 months (1st December ,2017 to 1st 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 to 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: Jupyter notebook, git

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, git

Language: python

Client: Indian Cyber Security Solution

4. Website vulnerability scanner using python

Duration: Still working on that (1st 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: Sublime text 3, git.

Technology: Mechanize, oSCP top 10 vulnerability architecture, Json, xml, python, sql

DataBase: MongoDB, Mysql

Client: Indian Cyber Security Solution

5. Mail spoofing

Duration: 1 month (1st January 2019 to 31st 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. 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, git

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 completely new cryptocurrency called arcturus. Developing the website and the coin from scratch was my responsibility. I used ethereumico base to create this coin. This project still on development.

Website: www.Arcturus.com

Role: Lead Developer

Database: MongoDB, Mysql

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

Language: Python, html, css, javascript, Solidity

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: python , matplotlib, tkinter,git,numpy , pandas

Database: Sqlite3

Language: Python

8. Recomaindation System

Duration: 5 month

Description: Here I have to build a system where it will recommend user according their search History, according their post, comment, hashtags etc etc. Here I have built a total word relation Mapping. Their I am scraping total 110 website for latest news update and saving those news in S3 , and later showing those news using the recommendation system according user interest. All of recommendation return back to to user using api endpoint.

Role: Lead Developer

Technology: python, collaborative algorithm, svr, knn, word2vec,kernel approximation ,git,request, Web scraping, s3, sqs, sns, ec2, csv , Django, orm, pandas, numpy

DataBase: MongoDB

9. Extract ,Convert, Rewrite on Image which contain Text.

Duration: 2 week

Description: Here I have to build a system where it will Extract the text from image, Translating the Text into other language, rewrite on the image. I am using yolo algorithm with cnn to detect the Text , Google translate api for translate the text, Image Inpainting

Role: Lead Developer

Technology: python, yolo algorithm , opencv, cnn, Django, git

DataBase: MySql

MY RESEARCH BASED WORK:

1. Bezier Curve Algorithm:

It's a Python package which is update by me from previous bezier algorithm package. I have been implanted 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 implanted Instartwrite which project I have mentioned before.

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

2. ICMP Smurf attack detection using neral 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's can work in real time and also can analysis server log file to identify icmpsmurf attack.

Its totally made in python with help of keras and tesorflow. 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

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 otpatlogin. I am not shearing the otp bypass due privacy issue. Here is the main code but one component I am not shearing.

Git link: https://github.com/xhimalaya/telegram_chat_dump.git

CIRTIFICATE:

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(super vised 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.