

HIMALAYA MANDAL

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NLP | WEB SCRAPING | PYTHON | MACHINE LEARNING | DJANGO|REST-API | DATA SCIENCE | POSTGRES | MONGODB

EXPERIENCE

6TH OCTOBER 2020 TO NOW

SINEOR SOFTWARE DEVELOPER, HOMZHUB ADVISOR PVT. LTD.

JOB ROLE: TEAM LEADER & NLP DEVELOPER.

2ND FEBRUARY 2020 TO 16TH AUGUST

NLP DEVELOPER, WSE GAMES

JOB ROLE: NLP DEVELOPER.

3RD JUNE 2019 TO 1ST JANUARY 2020

PYTHON DEVELOPER, ECLIPSE TECHNOCONSULTING GLOBAL PVT. LTD

JOB ROLE: PYTHON DEVELOPER.

6TH SEPTEMBER 2018 TO 24TH APRIL 2019

PYTHON ANALYST, INDIAN CYBER SECURITY SOLUTION

Job role: PYTHON ANALYST.

SKILLS:

Programming Language:

Python, Html, CSS, JavaScript

Framework:

Django, Rest-API, Flask, TensorFlow, PySpark, Apache Airflow, Web Scraping, Docker.

Data Science:

Data Engineering & Visualization, NLP, Deep Learning, Machine learning.

Packages & algorithm:

Pandas, NumPy, Matplotlib, Scikit Learn, SciPy, Collaborative filtering, Recommendation Algorithm, Clustering Algorithms, Classification Algorithms, request, bs4, scrapy, QT5, Jina, spacy.

Database:

MongoDB, PostgreSQL, MySQL, Sqlite3, Redis.

Server:

AWS (s3, ec2, rds, Lambda, sqs, sns)

Cyber Security Tools:

Netsparker, Accunetix, Nmap, Nessus, owasp, Burp Suite, SqlMap.

Version control, Tools & OS:

Git, Vs Code, Flake8, Jupyter Notebook, Anaconda, Linux (Debian).

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. Recommendation System

Duration: On Going (6th October 2020 to Now)

Description: Here I have to build a system where it will recommend user real-estate property According their age group, salary, price, searching quarry, location, and all other user data. Here I ma using NLP, Python, machine learning, clustering algorithms, classification, mongodb, Django Rest-API, PostgreSQL, pyspark and others.

Role: Senior Developer and team leader

Tools: PySpark, Aws, git

Language: PYTHON

Database: PostgreSQL, MongoDB

Client: Homzhub Advisor (<https://www.homzhub.com/>,
<https://play.google.com/store/apps/details?id=com.homzhub>)

2. Id verification And Image verification

Description: On platform the user has to verify their selfie holding their id card under the face. I have to match face of user with id card and also get the Id card details So manually can be verified.

Role: Lead Developer

Tools& Technology: Yolo algorithm, Svm, git

Language: python

Database: MongoDB

Client: Homzhub Advisor

3. Website vulnerability scanner using python

Description: It will scan a website and find out those vulnerabilities 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 vulnerabilities.

Role: Developer & team leader.

Team size: 5

Tools: Sublime text 3,git.

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

Database: Mongo dB, MySQL

Client: Indian Cyber Security Solution

4. Mail spoofing

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

5. Arcturus cryptocurrency wallet

Description: Creating a completely 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

Role: Lead Developer

Database: Mongo dB, MySQL

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

Language: Python, html, css , javascript, Solidity

6. StartWrite India Desktop Application

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

7. Recommendation System Api

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 websites for latest news update and saving that 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, kernal approximation, git, request, Web scraping, s3, sqs, sns, ec2, csv , Django, pandas, numpy

Database: Mongo DB

Website: <https://wenaturalists.com/>

Client : WSE games

8. Extract, Convert, Rewrite on Image which contain Text Api Design .

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

9. Big bazar future sells prediction according to past sells data using Python

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

Internship:

Company Name: Future Group

PROJECT: Future sell prediction using past sells data.

TimeLine: 1st December 2017 to 30th June 2018

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 server side tool. It's can work in real time and also can analysis server log file to identify icmp smurf attack. It's 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

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.