**UTKARSHAPROFESSIONAL EXPERIENCE:**

**● Weblog Analytics:**

Technologies : Hadoop, Hive, Pig, Sqoop, Flume, MapReduce

Description: Weblogs Analysis of an E-Commerce Site. Top e-commerce firm wanted to analyze log files from its web servers to gain a deep understanding of customer shopping trends, social media use, web advertisement effectiveness and other metrics that inform business decisions.

Responsibilities:

● Parsing the data

● Find the count of people visiting

● Find peak hours of operations

● Find the trending links

● Count of people who made paid clicks

● Count of people who made clicks and never returned

● Count of frequency of visits per IP

● Gather the names of the bots visiting the website

**● Search Engine like Trivago.com**

This involved finding the hotel name from different sites that has less registration amount.

Finding best price and vendor name with hotel name is the task of paramount importance.

Technologies : Hadoop, Pig, Sqoop, Hive

Responsibilities:

● Parsing the data

● Find all hotels with different sites and prices

● Find cheapest site with respect to each hotel

**1) Analysis of right shifted unstructured data using pig and hive**

Order.csv is not in proper order it is right shifted. Some fields of order-type and product-

description contains order-amount. This POC was solved using hive and Pig. In this, String

functions ‘LIKE’, ‘SUBSTRING’, ‘TRIM’, ‘LENGTH’ for hive and ‘SUBSTRING’, ‘TRIM’,

REPLACE for pig were used to find out order amount between 200 and 400.

**2) Text processing using hive and pig**

Intends to count words from any file with hive and pig. Removing special characters is

main task. which is done by,

In hive: REGEXP\_REPLACE function, to split the word with spaces with SPLIT function and

separate it in column with EXPLODE function.

In Pig : TOKENIZE function to splits the line into a field for each word, FLATTEN will break

the bag and separate the tokens and REPLACE function replace the special characters with

null.

**2] Unithing Technologies LLP (From sept 2017 )**

Development of data management platform using MongoDB and loopback. Main

responsibility is to creation of databases and backend policy of Unithing and manage and

maintain databases for the APIs using Mongodb and Loopback. Create APIs using

loppback

Technologies : Mongodb, Loopback

**PROJECT WORK :**

** MTech Project:**

**Forensic Tool for database tampering Detection**

Main motivation of the project is to perform automated digital forensic analysis of

Database tampering using forensic algorithm with secure audit log & to generate forensic

reports as a valid evidence to show it in the court of law against crime. There are 5

modules: Banking System, Validator, Notorizer, External Digital Notary Service & Forensic

System. With the help of forensic algorithm we can find out the name of intruder and what

data is tampered and at what time.

** BE Project:**

**Forensic Analysis for database tampering**

Secure data storage is a vital aspect of public businesses, government agencies and many

institutions. For many organizations, if data were to be maliciously changed, whether by

an outsider or by an inside intruder, it could cause severe consequences for the company.

So with the help of ‘Tiled Bitmap Algorithm’ we can detect the information about

tampering, what and from where data has been tampered. Project is coded in Java and

with ZK platform and MYSQL.

**AREAS OF INTERESTS**

● Big data & Hadoop, Pig, Hive, Sqoop, Flume, MapReduce, MongoDB

● Spark & scala

● Java, MYSQL, Python, Machine Learning

**SOFTWARE SKILL SET**

● Languages : Python, C, C++, Java, MYSQL

● Operating System : Windows, Linux

● Packages : Weka, StarUML, OpenCv

**ACADEMIC ACHIEVEMENTS & CO-CURRICULAR ACTIVITIES**

● Certification for publishing research paper in “IAETSD-JARAS, Journal for advanced

**Research In Applied Sciences” on Forensic Tool For Database Tampering**

Detection (Volume 4, Issue 2, July /2017ISSN (Online): 2394-8442 )

● Certification for publishing research paper in “International journal of Engineering

**Research And Technology(IJERT)” on Forensic Investigation for Database**

**Tampering using Audit Logs**

● Certification for participation in project Competition of “Impetus and Concepts 2015”

in PICT, Pune.

● Certification for participation in National Level Technical event “JISHIN’15” for Paper

presentation, Project Exhibition, C coding.

**EXTRA CURRICULAR ACTIVITIES**

● Certification for acting with A+ grade from Mr. Yogesh Soman a renowned Marathi

Thespian & “Themez Unlimited”.

● Certification for participation in State level one act play competition.

● Certification for first and second level of “Shastriya Sangit Examination” with 1st and 2nd

rank respectively from “Pune Bharat gayan Samaj”.

● Certification for 1st rank in one act play competition in “Jishin’13”