



GUJARAT TECHNOLOGICAL UNIVERSITY

(Established under Gujarat Act No. 20 of 2007)

ગુજરાત ટેકનોલોજીકલ યુનિવર્સિટી

(ગુજરાત અધિનિયમ ક્રમાંક: ૨૦/૨૦૦૭ દ્વારા સ્થાપિત)

Annexure 1

Enrollment no:

190130111081

STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: Modi Shreshtha Pragnesh

DIARY OF THE WEEK: Dt: 01/02/2023 TO 08/02/2023

DEPARTMENT: Electronics And Communications Engineering SEM: 08

NAME OF THE ORGANISATION: Eternal Soft Solutions

NAME OF THE PLANT/SECTION/DEPARTMENT: Software and Cloud Engineering

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: Mrs Poonam Patel

DESCRIPTION OF THE WORK DONE IN BRIEF

- Orientation and introduction about the company and the department
- getting familiar with the tools and technologies being used for the project training
- setting up my system by installing ubuntu, vscode and python (numpy, tkinter, scipy, selenium, pandas, matplotlib)
- Introduction to operating system, types of operating system and the linux architecture and linux distros and the topics revolving around linux such as:
 - working with files, directories and linux file structures, open ssh and numerical permissions
 - shell training to learn more about installing and updating the packages, debugging dependency errors
 - using regex in shell to automate things, package manager
 - Managing system units and logs, and managing users, scp and rsync
- Introduction to vscode, the best practices while using vs code ide to organize your code, breakpoints and ide specific functionalities and hacks of vscode such as easy debugging and running of your code using 'F5'



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TOTAL HOURS: 35

SIGNATURE OF STUDENT

★ The above entries are correct and the grading of work done by Trainee is
EXCELLENT / VERY GOOD / GOOD / FAIR / BELOW AVERAGE / POOR

Signature of Faculty Mentor

Signature of officer-in-charge
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Date:

Date: 13/02/2023

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STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: Modi Shreshtha Pragnesh

DIARY OF THE WEEK: Dt: 08/02/2023 TO 15/02/2023

DEPARTMENT: Electronics And Communications Engineering SEM: 08

NAME OF THE ORGANISATION: Eternal Soft Solutions

NAME OF THE PLANT/SECTION/DEPARTMENT: Software and Cloud Engineering

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: Mrs Poonam Patel

DESCRIPTION OF THE WORK DONE IN BRIEF

- a) Diving deeper into linux with more learning more commands and debugging some common linux issues such as :
- 1) the path not being specified in the proper direction
 - 2) navigating through computer hardware and pc issue
 - 3) taking courses from the linux foundation (Introduction to linux)
- b) Introduction to programming in python:
- 1) Difference between a compiler and an interpreter
and an introduction to high level, medium level and low level programming languages
 - 2) Data Types, Operators
 - 3) Logical division of code
 - 4) Lists, dictionaries, strings, arrays
 - 5) common methods for accessing and modifying strings, lists and arrays such as indexing etc
- c) exercises on python; Leap year, even odd number, chicken problem, armstrong number etc



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STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: Modi Shreshtha Pragnesh

DIARY OF THE WEEK: Dt: 15/02/2023 TO 22/02/2023

DEPARTMENT: Electronics And Communications Engineering SEM: 08

NAME OF THE ORGANISATION: Eternal Soft Solutions

NAME OF THE PLANT/SECTION/DEPARTMENT: Software and Cloud Engineering

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: Mrs Poonam Patel

DESCRIPTION OF THE WORK DONE IN BRIEF

- Diving deeper into python and learnt topics such as:
 - switch statements, pass by reference, pass by value
 - understanding functions and some per-defined functions in python
- converted my code into functions
- learnt about clean code and best practices
- OOP in python (inheritance, polymorphism, methods, classes)
 - Exercies to understand more about oops
 - created my own user class to understand oop better
- Introduction to Numpy
- Introduction to pandas and matplotlib
- Modularized my code and made it better



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STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: Modi Shreshtha Pragnesh

DIARY OF THE WEEK: Dt: 24/02/2023 TO 1/03/2023

DEPARTMENT: Electronics And Communications Engineering SEM: 08

NAME OF THE ORGANISATION: Eternal Soft Solutions

NAME OF THE PLANT/SECTION/DEPARTMENT: Software and Cloud Engineering

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: Mrs Poonam Patel

DESCRIPTION OF THE WORK DONE IN BRIEF

- Installing selenium and using selenium and prawn to scrape the data from reddit
- data visualization on the scraped data using pandas and numpy
- Introduction to cloud computing:
 - Cloud computing vs on prem
 - Different cloud providers
 - AWS, history and architecture of aws
 - Computing services such as saas, paas and iaas
 - AWS free tier and evolution of aws
 - Advantages of aws as compared to the other cloud providers
 - Integrating aws with ml services
- Storage in aws:
 - Object based
 - file based
 - Instance based
- Quiz on aws



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DEPARTMENT: Electronics And Communications Engineering SEM: 08

NAME OF THE ORGANISATION: Eternal Soft Solutions

NAME OF THE PLANT/SECTION/DEPARTMENT: Software and Cloud Engineering

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: Mrs Poonam Patel

DESCRIPTION OF THE WORK DONE IN BRIEF

- Learnt about Object based storage system (s3):
 - Functionalities of s3, tiers of s3 and use cases
 - Hosting a static website on s3
 - Whitelisting and blacklisting IP addresses on s3
- Data bases in AWS (Aurora, Dynamodb, RDS, Graphql,)
- Fully managed services in AWS such as fargate and lambda, learning about when and how to use them
- AWS free tier, how to stay in the free tier, aws budgets, cost explorer and cloud watch
- AWS security services such as SNS, Macie, Inspector, shared responsibility model of AWS
- AWS CDN and Netflix delivery service, low latency networks, AWS SQS AND SNS messaging service
- Troubleshooting my system
- case study on delivery services using aws and consulting service quiz for a mock aws service



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NAME OF STUDENT: Modi Shreshtha Pragnesh

DIARY OF THE WEEK: Dt: 08/03/2023 TO 15/03/2023

DEPARTMENT: Electronics And Communications Engineering SEM: 08

NAME OF THE ORGANISATION: Eternal Soft Solutions

NAME OF THE PLANT/SECTION/DEPARTMENT: Software and Cloud Engineering

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: Mrs Poonam Patel

DESCRIPTION OF THE WORK DONE IN BRIEF

a) Understanding docker and docker architecture:

- 1) Introduction to containerized development, difference between docker, container and kubernetes
- 2) Installing docker and docker engine
- 3) Understanding docker images and how to create one
- 4) Frequently used docker commands (docker -s, docker pull, docker ps etc)

b) Introduction to version control:

- 1) History of version control, why we need it and how it's evolved
- 2) Types of version control, difference between subversion and git
- 3) Introduction to git and github
- 4) Creating a github account
- 5) Frequently used git commands such as git fork, git clone, git pull, git push, git commit, git merge, git rebase etc

c) Uploading all of my code done till date in a repo

d) Introduction to open source and why should we contribute to the same



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STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: Modi Shreshtha Pragnesh

DIARY OF THE WEEK: Dt: 15/03/2023 TO 22/03/2023

DEPARTMENT: Electronics And Communications Engineering SEM: 08

NAME OF THE ORGANISATION: Eternal Soft Solutions

NAME OF THE PLANT/SECTION/DEPARTMENT: Software and Cloud Engineering

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: Mrs Poonam Patel

DESCRIPTION OF THE WORK DONE IN BRIEF

a) Introduction to the project and project breif:

- 1) Have to build a data anonymization pipeline for a US Hospital which has tons of legacy patient data and they want to release only the anonymized data where the user info is privatized beyond recognition or reidentification yet the data should be statistically significant for sound analysis

b) Brainstorming the ideas for the piepline architecture. Proposed ideas:

- 1) Using AWS S3 and EC2, Lambda function as a CRON job to run the anonymization script periodically to anonymize the data

Feedback: Not cost optimized and the data is dynamic

- 2) Using AWS glue databrew's PII masking feature to remove the sensitive data and building a github actions CI/CD pipeline to automate the same

Feedback: Masking provides insufficient level of anonymzation and the risk of reidentification is high

- 3) Using snowflake as a legacy data warehouse to store the sensitive data, Using ARX to anonymize the data and then uploading it to another snowflake table which is public facing for anonymization

Feedback: This solution works well as it meets all the requirments and is cost effective



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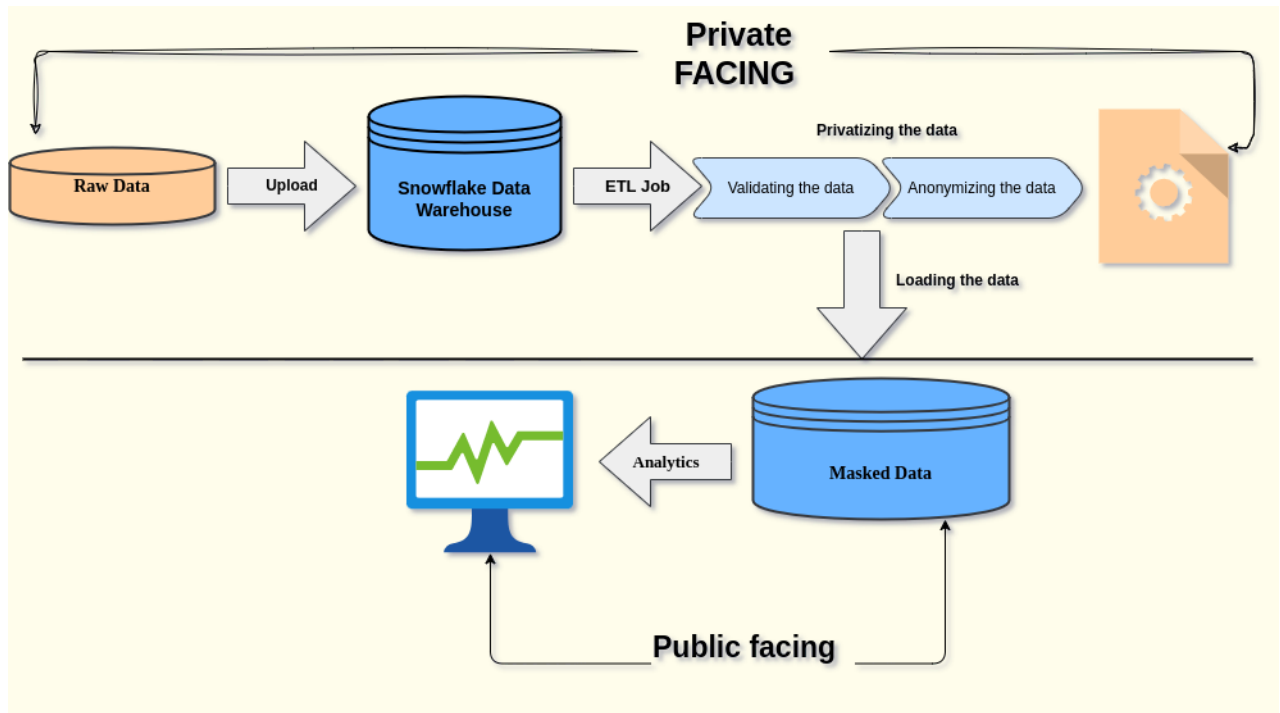
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SUPPLEMENTRY NOTES
(add additional sheets if required)

Architecture for the pipeline





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STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: Modi Shreshtha Pragnesh

DIARY OF THE WEEK: Dt: 22/03/2023 TO 29/03/2023

DEPARTMENT: Electronics And Communications Engineering SEM: 08

NAME OF THE ORGANISATION: Eternal Soft Solutions

NAME OF THE PLANT/SECTION/DEPARTMENT: Software and Cloud Engineering

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: Mrs Poonam Patel

DESCRIPTION OF THE WORK DONE IN BRIEF

- Understanding the difference between static and dynamic anonymization
- Understanding ARX:
 - Installing the ARX software and anonymizing a cars dataset according to the tutorial given
 - Installing the ARX instance docker image and trying out the API
- Installing the pyarxaas module and anonymizing the titanic dataset, identifying the reidentification risk before and after the anonymization, building hierarchies for the dataset:
 - Installing venv and pyenv
 - Installing python 3.8 as pyarxaas is outdated
 - Downgrading Pandas and Numpy for the specific venv
 - Installing pyarxaas and running the arx instance locally



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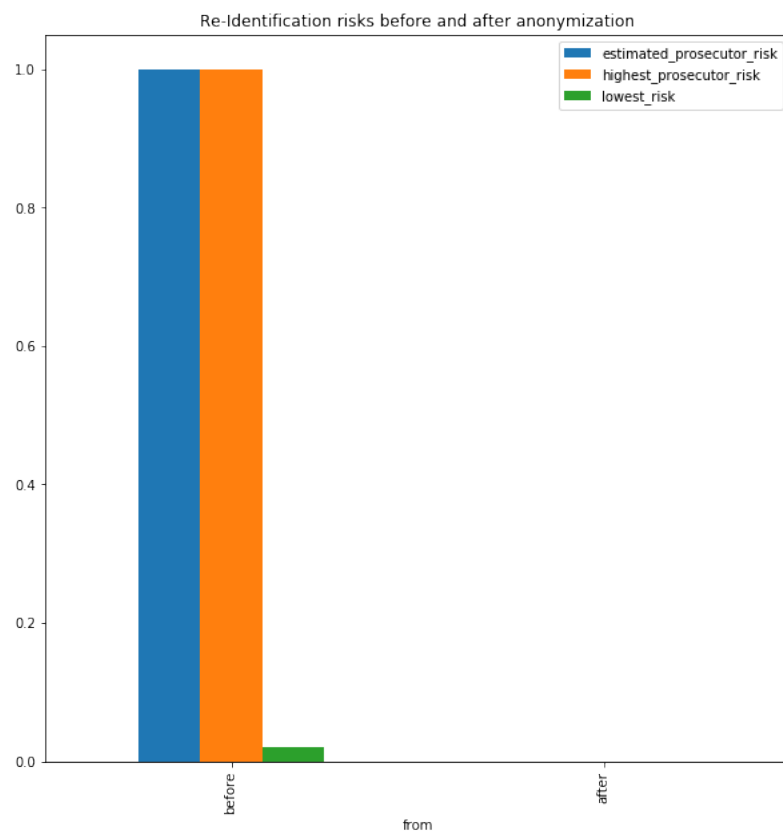
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SUPPLEMENTRY NOTES

(add additional sheets if required)

Reidentification risk for the titanic dataset before and after anonymization





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NAME OF THE PLANT/SECTION/DEPARTMENT: Software and Cloud Engineering

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: Mrs Poonam Patel

DESCRIPTION OF THE WORK DONE IN BRIEF

a) Moving towards final analysis, creating a dummy dataset using faker:

1) dataset is called customer data and contains:

- Name: Name of all the customers who purchased things from a hypothetical e-commerce website
- Gender: Gender of the people who purchased the items
- Email: Email address of the people who purchased the items
- Amount Spent: The amount spent by people (between 1 to 1000)
- Zipcode: The zipcode of the people who purchased the amount
(for the sake of simplicity, only used zipcodes from the city of Ahmedabad which were scraped from the internet)
- Age: Age of the people who purchased the items

b) Hierarchy Generation for the data:

- Name and Email are identifying columns and hence they will be replaced by asterisk
- The Age to be replaced by intervals "young, old and adult" and built using interval hierarchy builder
- Amount hierarchy is made in a similar way to the age
- Zipcode is a sensitive column and the hierarchy generated here has levels:
 - Level 1: Raw Zipcode values
 - Level 2: Name of the area
 - level 3: Name of the city
 - Level 4: Name of the state
 - Level 5: Name of the country

c) Setting the hierarchies and anonymizing the data using k anonymity, ldiversity and tcloseness



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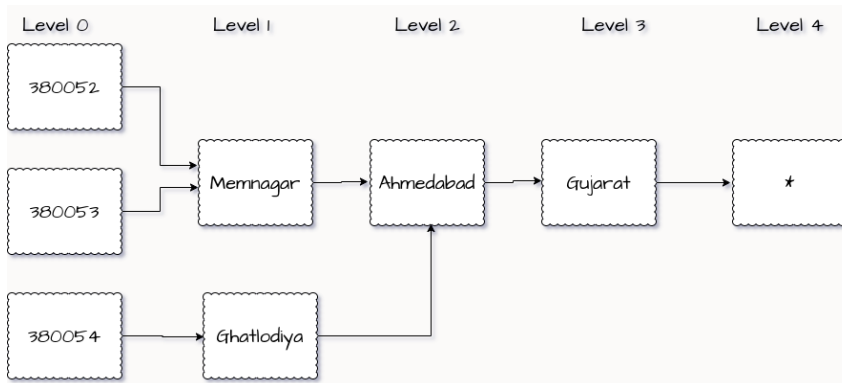
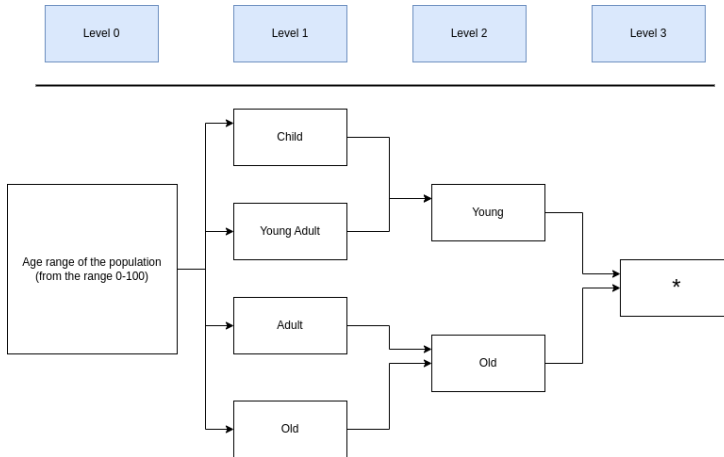
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ગુજરાત ટેકનોલોજીકલ યુનિવર્સિટી

(ગુજરાત અધિનિયમ ક્રમાંક: ૨૦/૨૦૦૭ દ્વારા સ્થાપિત)

SUPPLEMENTRY NOTES (add additional sheets if required)

Hierarchy Generation





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Annexure 1

Enrollment no:

190130111081

STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: Modi Shreshtha Pragnesh

DIARY OF THE WEEK: Dt: 05/04/2023 TO 12/04/2023

DEPARTMENT: Electronics And Communications Engineering SEM: 08

NAME OF THE ORGANISATION: Eternal Soft Solutions

NAME OF THE PLANT/SECTION/DEPARTMENT: Software and Cloud Engineering

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: Mrs Poonam Patel

DESCRIPTION OF THE WORK DONE IN BRIEF

- Installing snowflake.connector module in python and creating a free trial account on snowflake
- Understanding the snowflake architecture, pricing, how it works, navigating the UI
- Creating a database which stores public facing data
- Creating a database which stores private facing data
- Uploading my data in the private facing data table and fetching all of the data table for anonymization
- Anonymizing the data
- After anonymization, entering only the modified values in the rows for the previously entered data, if the data is not present then inserting the rows and writing sql queries in a python script for all of the above
- Modifying the anonymization class in such a way that these steps are repeated periodically after a week
- Further steps and designing a blueprint for the UI
- Getting started on building a more general module for data anonymization which takes in any dataframe and returns the anonymized dataframe



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(ગુજરાત અધિનિયમ ક્રમાંક: ૨૦/૨૦૦૭ દ્વારા સ્થાપિત)

TOTAL HOURS: 35

SIGNATURE OF STUDENT

★ The above entries are correct and the grading of work done by Trainee is
EXCELLENT / VERY GOOD / GOOD / FAIR / BELOW AVERAGE / POOR

Signature of Faculty Mentor

Signature of officer-in-charge
of Dept. / Section / Plant

Date:

Date: 12/04/2023

★ Grading of Work, for trainee may be given depending upon your judgement about his Punctuality, Regularity, Sincerity, Interest taken, Work done etc.



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DESCRIPTION OF THE WORK DONE IN BRIEF



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