

Chhayansh Purohit

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EDUCATION

The University of Texas at Dallas

Aug 2022-May 2024

Master of Science, Information Technology and Management

GPA: 3.7/4.0

Graduate Teaching Assistant

Relevant Coursework: Big Data, Data Visualization, Advanced Statistics for Data Science, Business Analytics with R

Jabalpur Engineering College, India

Aug 2017-May 2021

Bachelor of Technology, Computer Science and Engineering

GPA: 3.8/4.0

Relevant Coursework: Data Structure and Algorithms, Database Management System, Software Engineering, Data Mining

TECHNICAL SKILLS

Programming Languages: C++, Python (NumPy, Pandas), R, SQL

Analysis Tools: Tableau, Power BI, Advanced Excel (VLOOKUP, Pivot Tables), Google Analytics, AWS Quicksight

Statistics: Hypothesis Testing, Z-test, T-test, P-test, Chi-square, Regression

Platforms and Services: AWS S3, EC2, IAM, Data Pipeline, AWS Lambda. GCP, Docker, Kubernetes, Linux, Devops, CICD

CERTIFICATIONS

AWS Cloud Practitioner Essentials | Alteryx Certified Core Designer | IBM Cyber Security Analyst

WORK EXPERIENCE

Data Engineer | Infosys Limited | India

Sep 2021–Jun 2022

- Developed a Rules Engine for Pfizer, capturing changed data and logic rule check using SQL database resulting in a 70 % efficiency increase for a Registry Quality Control Management System.
- Designed Alteryx workflows for transforming raw clinical data from across the globe into clean analytical dataset.
- Developed reports in Tableau for communicating monthly status to the stakeholders and reduced the turnaround time by 20%.
- Collaborated with the team to develop complex features through requirement gathering, planning, solution design, and implementation which led to collecting product insights and measuring product success.

Cloud Intern | ESEM Infostreamz Pvt.Ltd | India

May 2020–Oct 2020

- Managed 15 AWS accounts, including the setups and configuration of EC2 instances, RDS Databases, VPCs, Elastic Load Balancers (ELBs), CloudFront distributions, Route53 hosted zones & health checks.
- Hands on experience on setting up CI/CD Pipeline for data processing workflows using AWS Code Pipeline.
- Created automated alerts around infrastructure issues leading to an improvement in the response time to critical errors by 91%.

ACADEMIC PROJECT EXPERIENCE

Trending YouTube Video Analysis – [AWS Data Engineering, CI/CD Pipeline, IAM, AWS Lambda]

- Designed an AWS pipeline to analyze YouTube videos trending data by category and trending matrices.
- Automated 90% of the process by implementing a strong Data Catalog and ETL Transformations using AWS Glue and Lambda.
- Utilized Tableau to create interactive dashboards for visualizing and gaining insights into various aspects of trending videos.

Healthcare Services in New York – [Tableau Microsoft Excel, Python]

- Analyzed hospitalization data from Manhattan and Brooklyn counties in New York to assess the quality of healthcare services provided by different hospitals and investigated how Covid-19 has impacted these services and people of various age groups.
- Aggregated, Cleaned and Structured the data for better understanding of dataset and used our findings to formulate hypothesis.
- Utilized Tableau to create innovative dashboards to validate the hypothesis and effectively visualize the data.

Terrorist Network Identification – [Data and Node Analysis]

- Examined 26/11 Mumbai Attack terrorist network dataset and designed a framework with a fitness function employing Prim's Algorithm for enrichment of key node evaluation on the terrorist network.
- Based on the designed framework, it is resolved that the obtained crucial nodes can be instrumental for the intelligence agencies to confine their focus on crucial members deterring the functioning of these networks.

PUBLICATIONS

Trusted Infrastructure Design for Secure Virtualization in Cloud Computing

Dec 2021–Sep 2022

An Informative Analysis of Encryption Algorithms Using Quantitative Fitness Function | Springer

Jul 2019–Dec 2019

ORGANIZATIONS AND LEADERSHIP EXPERIENCE

Graduate Teaching Assistant | UT Dallas

Jan 2023–Present

- Assist Professor with the coursework and grading assignments for the Professional Development course.