https://github.com/abhikchakraborty92

abhik.chakraborty92@gmail.com | +918587920073 | Gurugram, Haryana, India

Work Experience

Senior Engineer- Data & BI

Data Engineer III

Expedia Group | (5-2021 - Present)

Leading implementation as a Tech lead for a team of 2 people

- Leading implementation as a Tech lead for a team of 2 people
 Constructed data processing pipeline for usage/quality logs of audio/video calls
 with over billion events monthly using AWS S3, EMR, PySpark and Redshift
 Successfully migrated 10+ On-prem team business databases with over 300
 tables to cloud AWS SQL Server RDS using Python Boto3
 Designed data warehouse and its ingestion pipelines for change management
 data stream with AWS DynamoDB, SQS and Lambda
 Enhanced application metadata of 60000+ applications by designing a
 metadata correction service using Github API, AWS Lambda and Redshift

Senior Reporting Analyst II

Expedia Group | (3-2020 - 5-2021)

- Engineered domain performance evaluation of Expedia DPI, improving average health by 15% by developing SQL Server data warehouse for 50+ KPIs

- neath by 15% by developing SQL Server data warehouse for 50+ KPIS
 Designed and replaced a legacy revenue loss estimation system, reducing
 estimation errors by 15%, with fault tolerant PySpark ETL pipelines for
 terabyte scale bookings data
 Improved post COVID employee retention by 20% by capturing employee
 stress data using AWS Lambda and DynamoDB
 Aided in license cost reduction over 25%, by implementing SQL Server Data
 Warehouse for product license & usage logs and analytics API endpoints with
 AWS Lambda **AWS Lambda**

Senior Reporting Analyst I

Expedia Group | (5-2018 - 2-2020)

- Architected entire performance reporting eco-system for Expedia IT replacing ad-hoc data analysis with fully functional data warehouse on SQL Server database and Tableau dashboards with 40+ KPIs

- Improved Customer Satisfaction by 5% by standardizing customer feedback data analysis, designing metrics data store using Redshift and PySpark Improved SLA compliance by 10% with live SLA monitoring developing NRT database from JIRA APIs to Redshift using PySpark and EMR Automated manual data reviews and data-based notifications by introducing RPA ecosystem with UiPath

Senior Business Technology Analyst

ZS Associates | (1-2018 - 5-2018)

- Managed a team of 3 people and drove pure data engineering projects for world's second biggest pharmaceutical company Standardized physician & patient profile information in Europe by developing PySpark ETL pipelines for terabyte scale data from client data sources in AWS Redshift, S3, delimited files to AWS RDS SQL Server

Business Technology Analyst

ZS Associates | (6-2015 - 12-2017)

- Transformed 10+ years historical sales transactions for client vs their generic drugs to generate sales insights after a few drugs' loss of exclusivity Developed terabyte scale data warehouse and related ETL pipelines using Dataiku DSS to capture sales data for client Rare Disease drugs in Europe
- Developed Tableau dashboards to support client drug expansion in the Asia Pacific Region by tracking sales, distribution, and budgeting Created fully automated Excel VBA based summary reports to support client-side inventory logging of drugs in specific locations

 Generated Tableau and Excel Dashboards to gather market insights before the launch of Onivade drug in LIS regions

- Maintained 3+ Tableau dashboards and their related data pipelines to generate monthly insights for 6 drugs in Europe and USA

Education

Bachelor of Technology

80.4% Guru Gobind Singh Indraprastha University, Delhi 08/2011 - 07/2015

Senior Secondary Examinations (CBSE)

Greenway Modern School, Dilshad Garden, Delhi 03/2009 - 03/2010

Indian School Certificate Exams (ICSE)

Holy Angels' School, Rajendra Nagar, Ghaziabad 03/2007 - 03/2008

SQL | HiveQL | Python | Excel VBA | PySpark SQL

Skills/Toolstack

Databases

Senior Data and BI Engineer with more than 6.5 years of experience in Healthcare, ITSM, and Product analytics designing terabyte scale Data solutions in DSS, SSIS, SQL Server, Python, AWS & more, visualization reports in Tableau, PowerBl & Excel, RPA using UlPath & serverless analytics solutions in AWS Lambda

Skillset

Toolstack Scripting

MS SQL Server | MySQL | AWS Redshift | PostgreSQL | DynamoDB | RDS

ETL | Data Modelling | Data Warehousing | Data Visualization | Agile |

Serverless Design | Robotic Process Automation | Cloud Big Data Processing

ETL Tools

Dataiku DSS | SSIS | EasyMorph | PowerQuery | Tableau Prep

Data Visualization Tools

Tableau | Power BI | MS Excel | Streamlit

Cloudstack

AWS

S3 | Lambda | EMR | API Gateway | SQS | SNS | Redshift | DynamoDB | RDS | Boto3 Python SDK

GCP

GCS | BigQuery | Cloud Data Fusion | Dataproc

Personal Projects

TXP: Fully mechanized Tableau controls with single line python commands for:

- Downloading data, images, or PDF of the dashboards
- Adding, refreshing, or deleting data sources Viewing/downloading personal usage data

Slack Analytics app with AWS Lambda: This implementation is:

- Single file python-based template to create Slack apps
- Sends customized insights to users in response to specific slack texts
- Uses AWS Lambda, AWS HTTP Gateway & and AWS S3
- Can handle multiple requests due to its serverless design

EMRAuto: Automated EMR Pipeline creator. It has following features:

- Automatic creation of EMR Clusters to set up analogous cloud Hadoop environment
- Schedules Python scripts as pipeline steps on EMR from local/On-prem
- Maintains logs of triggers
- Automatic destruction of clusters to save costs

Achievements

ECommerce Platform Champion Award: Designing entire performance management ecosystem for Expedia IT with 40+ KPIs, related data pipelines and performance notification

Way to Go! Award: Awarded for record time implementation of fully automated live Problem Management & SLA Monitoring Dashboard at Expedia

Published Author: Author of acclaimed mystery novel "Shadows of the Departed", exhibited in Cairo and Abu Dhabi International Book Fairs

Certifications

82.8%

86.8%

Certified Data Scientist in Tableau

Robotic Process Automation Developer Certification in UIPath

DSS Core Designer of Dataiku Data Science Studio ETL Development



