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SHUBHANSHU TRIPATHI

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EMPLOYMENT

Senior Software Engineer, Software Engineer **Capgemini** **March 2022 - Present**

Operational Data Store, Data Hubs, Extracts Generation

- Migrated on-prem big data ETL processes to cloud, by creating storage event and tumbling window triggered pipelines in Azure Synapse Analytics using PySpark notebooks
- Implemented pre-load, data quality, and data control checks
- Performed data cleaning and applied transformations on parquet and CSV big data feeds
- Implemented change data capture process to store transformed data with SCD Type 2 implementation
- Loaded data to Azure SQL database and Delta tables, & generate fixed length TXT extracts, with selectively fetched data by joining multiple source tables
- Implemented dynamic pipeline status email notification functionality using Azure Logic apps and Web activity

Status and Metadata Reports Generation

- Automated status and metadata report file generation of data feeds as per predefined frequencies by creating Python scripts
- Extracted metadata properties and row counts dynamically from DAT and TXT data feeds

Miscellaneous

- Reduced ETL python scripts runtime up to 23.8% by optimizing code and fixing bugs
- Automated Excel macro run by creating Python script to send daily consolidated ETL jobs status report email at scheduled time

EDUCATION

Master of Technology (Computer Science and Engineering) **Birla Institute of Technology, Mesra** **CGPA: 8.06** **July 2018 - July 2020**

Thesis Work

Diabetes Prediction using Machine Learning (bit.ly/dbtspred)

- Achieved up to 81.6% accuracy in Diabetes Prediction on Pima Indians Diabetes Database with Random Forest classifier
- Applied and analysed accuracies of “K-Nearest Neighbors, Support Vector Machine, Decision Tree and Random Forest” classification algorithms for diabetes prediction
- Achieved up to 7.04% improvement in the accuracy of Decision Tree classification algorithm for Diabetes Prediction
- Predicted missing values present in the dataset using a set of “Linear Regression, Support Vector Regression, Decision Tree and Random Forest” regression algorithms
- Performed Dataset Balancing using SMOTE algorithm and then Feature Scaling

PROJECT WORK

CoWIN Vaccine Notifier (bit.ly/covantf)

- Developed a Python notebook to notify the user, as soon as any desired Covid Vaccine is available on CoWIN website for booking
- Implemented 4 dynamic filters on the Vaccination calendar received as a JSON response from Co-WIN API
- Helped more than 30 people to get Covid Vaccines using this notifier

CERTIFICATIONS AND ACHIEVEMENTS

- Finalist (top 10) among 250 teams in i3i 2023, a Capgemini’s internal hackathon for insurance domain
- Passed “AWS Certified Cloud Practitioner” certification exam of Amazon Web Services (bit.ly/stawsccp)
- Completed “Complete Python Bootcamp” course from Udemy (bit.ly/pyud)
- Passed “Basics of Data Science and Machine Learning” course from Coding Ninjas (bit.ly/dscmlcn)
- Qualified GATE (CS) exam organised by Indian Institute of Science (IISc), Bangalore
- Earned Silver badge (3/5 stars) in Python on HackerRank

Languages and Technologies

- Python, SQL, PySpark, Data Science, Machine Learning, Markdown
- Azure, Amazon Web Services (AWS), Google Colab, Anaconda, Jupyter Notebook, Visual Studio Code