

Apoorva Gangwar

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Summary

4+ yrs as Business/Data/QA Analyst passionate about solving challenges with data-driven solutions using SQL, Python, Tableau, Power BI.

Education

San Jose State University, United States

MASTER OF SCIENCE IN DATA ANALYTICS

Aug. 2022 - May 2024

CDAC ACTS, Bangalore, India

POST-GRADUATION-DIPLOMA IN EMBEDDED SYSTEMS AND DESIGNING

Aug. 2016 - Feb 2017

Dehradun Institute of Technology, India

BACHELOR OF TECHNOLOGY, ELECTRONICS AND COMMUNICATION ENGINEERING

Aug. 2012 - May 2016

Experience

Advantest America Inc.

DATA ANALYTICS INTERN

Sept. 2024 - Present

- Implemented & automated user-friendly dashboards using Excel (macros & VBA script), Microsoft Power BI, ensuring data integrity, validation & thorough documentation. Leveraging data viz to identify potential KPIs helps in business strategy.

Capgemini Technology Services

QUALITY ASSURANCE ANALYST

March 2017 - Feb. 2022

- Conceptualized functional requirements & specs for the project. Devised test plans, involved in all domains of testing (Unit, Integration), Functional(Smoke, Sanity Regression), & Web-app Testing. Identified over 400 bugs across various project phases, leading to a 80% reduction in prod bugs & saving good amount of time.
- Performed Database, API testing, and Cybersecurity testing, Functional testing, of a web app hosted on AWS, stress testing using J-meter tool. Build SQL scripts using MySQL to create views for in-depth analysis and decrease query run-time by 35% and created automated test scripts in Postman using JavaScript. Employed data analytics methodologies to identify and predict potential system failures and optimize testing processes.

Skills

Programming Languages Python, SQL, HTML

Tools and Libraries Smartsheet, JIRA, Power Query, Jupyter notebook, Numpy, Pandas, d3.js, Tensorflow, Seaborn

Softwares & Frameworks Tableau, PowerBI, DAX, PyCharm, MongoDB, Neo4j, ELK Stack, Postman(API Testing), A/B Testing

Machine Learning/AI Data Modeling, Data Prep, Predictive Analytics, Deep Learning Models, GANs, Gen AI, Encoder-Decoder arch.

Cloud Technologies AWS (Glue, Redshift, MWAA, S3, Lambda, Amplify, API Gateway, Sagemaker, GCP (GCS, AppEngine)

Project Management Data Documentation, Milestone Planning, Client Comm, SCRUM/Agile, Enterprise Data, Task Management

Projects

Data engineering and web-app hosting using AWS services

Feb 2023 - May 2023

- Designed and implemented (in a group of 4), a web-app to analyze e-bike trends. The data plane populates the dataset in Redshift from S3 via ETL operations in AWS Glue. The website, hosted on AWS Amplify, connects to the API Gateway, for routing/auth, and connects to a Lambda function which queries Redshift and returns HTML/d3.js response. The dev workflow was automated via Github which builds the app after every commit, enabling CI/CD.

Hospital Readmissions Risk Assessment Model for Diabetic Patients

Feb 2023 - May 2023

- Analyzed USA diabetes dataset, applied data mining techniques to predict 30-day hospital re-admissions for patients Logistic Regression, KNN. Employed SMOTE for imbalanced data and evaluated models with Precision, Recall, F1, AUC.

Cloud analytics and data warehousing on COVID-19 dataset

Nov 2022 - Dec 2022

- Devised a star schema model for Covid dataset and visualized live trends and inferences on Tableau. As new data arrives in AWS S3, the ETL pipeline in AWS Glue will run a job to load data in AWS Redshift where SQL operations output will be fed to Tableau. Entire operation is automated using Amazon Workflow Management (AMWAA).

SJSU rental database analysis

Oct 2022 - Nov 2022

- Designed and created ER model for rental database. Compared performances of MySQL and NoSQL implementations. Migrated db to AWS Redshift using pymysql library and performed analysis using Triggers/Stored Procedures.

Relevant courses

Grad school Database Systems, Data Visualization, Math Methods for DA, Machine Learning, Big Data, Data Mining, Deep Learning