Priyansh Zinzuvadia

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SUMMARY

Data Engineering professional with a strong foundation in big data analytics and designing scalable ETL pipelines using Python, SQL, Apache Spark and Airflow. Skilled in optimizing data workflows with AWS services and leveraging cloud-based warehousing solutions like Snowflake to enhance performance and data quality.

EDUCATION

SAN DIEGO STATE UNIVERSITY **Aug 2023 - May 2025**
Master of Science, Big Data Analytics (GPA: 3.9/4.0) San Diego, CA

GUJARAT TECHNOLOGICAL UNIVERSITY **Aug 2019 - May 2023**
Bachelor of Engineering, Information Technology (GPA: 3.6/4.0) Ahmedabad, India

PROFESSIONAL EXPERIENCE

Data Analyst - Graduate Research Assistant **Aug 2024 - Present**
SAN DIEGO STATE UNIVERSITY San Diego, CA

- Automated an ETL workflow using Python, SQL and Airflow to extract Qualtrics survey data via API—reducing report time by 80% and reaching over 500 students.
- Developed interactive Tableau dashboards from historical data for cohort analysis and trend insights across 5+ academic years.
- Designed advanced Excel models with Power Query, pivot tables, and VBA macros to automate performance tracking, saving 10+ hours weekly.

Data Analyst **Oct 2023 - July 2024**
SAN DIEGO STATE UNIVERSITY - RESEARCH FOUNDATION San Diego, CA

- Architected scalable Python ETL pipelines using Apache Spark to integrate data from 12 healthcare units into Amazon Redshift, boosting efficiency by 25% and cutting errors by 40%.
- Optimized data warehouse performance with SQL tuning, AWS Glue, and Airflow, achieving 35% faster dashboard refresh rates and reducing processing costs by roughly $10,000.
- Developed automated Power BI reports and dashboards that reduced manual reporting time by 30% and drove data-driven protocols through collaboration with healthcare researchers.
- Developed Machine Learning Models using Python on AWS SageMaker to process 1M+ patient records, achieving 80% accuracy, enabling proactive care strategies.

Associate Data Analyst **Sep 2022 - Apr 2023**
INDIAN SPACE RESEARCH ORGANIZATION Ahmedabad, India

- Conducted statistical analyses on satellite telemetry data using Python and SQL, identifying patterns to inform mission strategies.
- Performed exploratory data analysis (EDA) to uncover trends and anomalies in space mission datasets, utilizing libraries such as Pandas, NumPy, and Matplotlib to visualize findings and support hypothesis testing.
- Created 5+ interactive Tableau and Power BI dashboards for tracking resource utilization and KPIs, boosting efficiency by 20%.
- Optimized Snowflake data warehousing through schema tuning and SQL query optimization, enhancing performance by 25% and saving approximately $3,000 per month.
- Maintained comprehensive documentation for data processes, facilitating knowledge sharing and ensuring project scalability.

Data Analytics Intern **May 2022 - Aug 2022**
UBERGRAD Hyderabad, India

- Designed and executed A/B testing framework using Python and SQL, analyzing 100K+ user interactions to validate feature improvements, resulting in 10% increase in user adoption.
- Automated Excel reporting workflows using advanced formulas, pivot tables, and VBA macros, reducing manual effort by 40% and enabling real-time tracking across 5 features.

SKILLS

Languages	Python, SQL, R
Libraries	NumPy, Pandas, Matplotlib, Seaborn, Plotly, Tensorflow, Sci-kit Learn, Keras, Pytorch, Transformers
BI Tools	Tableau, Power BI, Looker Studio
Technologies	MySQL, AWS - EC2, S3, RDS, DynamoDB, Snowflake, Apache Spark, Apache Airflow
Concepts	ETL/ELT, SDLC, Supervised & Unsupervised Learning, Neural Networks, NLP, LLMs, AI & ML

PROJECTS

San Diego's Hotel Market Analysis | *Web Scraping, Tableau, Python, SQL*

- Conducted comprehensive hotel market analysis through web scraping and data preprocessing, achieving 30% reduction in data gaps and delivering actionable insights through interactive Tableau dashboards for strategic decision-making.

Predictive Customer Churn Model for Amazon Product Reviews | *Python, NLP, AWS, Git*

- Developed an 82% accurate predictive model to identify churn among Amazon reviewers, using historical review data and user activity patterns. Enabled targeted retention strategies by balancing precision and recall for optimized customer engagement.