Priyansh Sanjaybhai Zinzuvadia

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EDUCATION

Master of Science, Big Data Analytics | San Diego State University, San Diego, CA | GPA: 3.9/4.0   **Aug 2023 - May 2025**

Bachelor of Engineering, Information Technology | Gujarat Technological University, India | GPA: 3.6/4.0   **Aug 2019 - May 2023**

PROFESSIONAL EXPERIENCE

Data Engineer | SDSU - Research Foundation | San Diego, CA   **Oct 2023 - Aug 2024**
- Architected and developed Python-based ETL pipelines with automated workflows, consolidating data from 12 diverse healthcare units into Amazon Redshift data warehouse, resulting in a 25% increase in data processing efficiency.
- Implemented data validation and cleansing procedures using Python and AWS Glue, reducing data inconsistencies by 40% and enhancing overall data quality and reliability.
- Utilized SQL queries to extract data from Amazon Redshift, facilitating development of dashboards and enhancing data-driven strategies.
- Designed automated reports and dashboards in Power BI, reducing manual reporting time by 30% and improving data accessibility.
- Built predictive machine learning models on processed data using Python and AWS SageMaker, achieving 80% accuracy in predicting patient outcomes, reducing manual risk assessment, and informing care strategies.
- Partnered with cross-functional teams to define data requirements, presented key insights to stakeholders through dashboards, and documented data workflows, ensuring seamless project execution and knowledge sharing.

Data Analyst | Indian Space Research Organization | Ahmedabad, India   **Sep 2022 - Apr 2023**
- 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.
- Utilized data visualization tools such as Tableau and Power BI to create 5+ interactive dashboards that tracked resource utilization, mission progress, KPIs, enabling real-time insights and increasing operational efficiency by 20%.
- Leveraged Snowflake for data warehousing, optimizing schemas and SQL queries to boost data accessibility and performance by 25%.
- Maintained comprehensive documentation for data processes, facilitating knowledge sharing and ensuring project scalability.

Business Analyst Intern | UberGrad | Hyderabad, India   **May 2022 - Aug 2022**
- Collected and cleaned large datasets on user activity, transforming raw data into structured insights that supported A/B testing for new platform features, leading to a 10% increase in feature adoption.
- Automated data extraction and reporting processes using Python and SQL, reducing report generation time by 40% and enabling quicker insights into user engagement trends.

TECHNOLOGY STACK

Programming Languages: SQL, Python, R
Data Analysis: NumPy, Pandas, Matplotlib, Seaborn, Plotly, ETL, Statistical Analysis, Excel
Data Visualization Tools: Tableau, Power BI, Looker Studio
Cloud Services - DBMS: MySQL, AWS - EC2, S3, RDS, MongoDB, GCP - Big Query, Azure - Data Factory
Big Data: Apache PySpark, Apache Airflow, SnowFlake, Hadoop
Machine Learning and Deep Learning: Sci-kit Learn, Keras, Pytorch, TensorFlow, Transformers
Natural Language Processing (NLP): NLTK, SpaCy, TextBlob

PROJECTS

San Diego's Hotel Market Analysis | *Web Scraping, Power BI, Python, SQL*
- Performed web scraping and data preprocessing for hotel market analysis, reducing missing data by 30%. Developed interactive Power BI dashboards with custom filters for insights, reviews, and costs to support 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.

Analysis of Bangalore's Dining Landscape | *Python, Pandas, NumPy, Tableau*
- Conducted data analysis on Bangalore restaurant data, reducing missing data by 45% with Python and ETL, and created a Tableau dashboard for interactive insights.
- Enhanced customer preference analysis, improving engagement and exploration efficiency by 25% for dining decisions.

Uncovering Medicare Fraud with Machine Learning: Insights from Claims Data | *Python, Big Data, ML, SQL*
- Built a ML model to detect Medicare fraud in claims data, achieving optimal F1-score through feature engineering and SMOTE.
- Enabled proactive fraud detection by identifying high-risk providers and patient profiles, aiding targeted interventions and fraud pattern insights.

AI Powered Medical Specialist Finder and Report Simplifier | *LLMs, ML, NLP, Python*
- Designed an AI-powered system for patient-specialist matching and simplified medical report summaries, using LLMs and semantic analysis to enhance accessibility and streamline healthcare decisions efficiently.

ACHIEVEMENTS

Google Project Management: Professional Certificate ([Certificate Link](#))
- Enhanced project management skills to effectively lead data-driven projects and collaborate with cross-functional teams.