Harshni Desai

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EDUCATION

Master of Science in Data Analytics and Information Systems (MSDAIS)   May 2026
Texas State University, San Marcos, Texas
Cumulative **CGPA (3.75 out of 4)**

Bachelor of Engineering in Electronics and Communication Engineering (EC)   Jan 2019
Gujarat Technological University, India
Cumulative **CGPA (9.07 out of 10-point scale)**

TECHNICAL SKILLS

- **Programming & Analytics:** Python (Pandas, NumPy, Scikit-learn), R, SQL (Advanced), ETL Workflows.
- **Data Visualization & BI**: Tableau, Power BI, Looker, Excel, Matplotlib, Seaborn.
- **Machine Learning:** Random Forest, K-means Clustering, Image Preprocessing, Predictive Modeling.
- **Data Management**: Relational Databases (MySQL), NoSQL (MongoDB), Snowflake, Data Validation, Databricks, AWS
- **Tools & Version Control:** Git, GitHub, Microsoft Excel (Advanced)
- **Optimization & Modeling:** Linear Programming (LP), Nonlinear Programming (NLP), Operations Research, Vehicle Routing Problems (VRP), Transshipment Models, Max Flow.

EXPERIENCE

ReArtham Tech LLP   Oct 2021 - Feb 2022
Data Analyst   *India*
- Extracted, transformed, and analyzed large datasets using SQL and Python, generating carbon audit reports with actionable insights for sustainability strategies
- Built interactive dashboards in Tableau, Power BI, and Excel, enabling clients to monitor KPIs and reduce carbon emissions by 10% (~500 metric tons CO_2 annually)
- Automated ETL workflows, improving reporting efficiency by 30% and reducing manual processing errors.

Eco Lights Studio   Sep 2020 - Oct 2021
Project Lead – Women Empowerment   *India*
- Collaborated with rural communities to develop customized skill development sessions, ensuring data-driven adjustments based on participant feedback.
- Fostered a supportive learning environment that encouraged personal growth, a foundation for accurate and empathetic stakeholder communication.

Eco Eclectic Tech   Aug 2019 - Sep 2020
Project Manager – Operation & Data Coordinator   *India*
- Maintained project data integrity for seven projects with up to 98% accuracy, demonstrating robust financial modeling and data management skills relevant to budget tracking.
- Streamlined project planning and execution processes, resulting in a 25% reduction in project timeline, and bolstered analytical methodologies that align with financial performance tracking

FOCUS AREAS & PROJECTS

Predictive Model for Student Performance | Python and MS Excel   Oct 2024 - Dec 2024
- Developed a Random Forest model using Python and Excel to forecast outcomes with 89% accuracy, leveraging rigorous data cleaning and exploratory analysis to ensure high model integrity and reliability.
- Executed feature engineering and statistical analysis to identify key risk factors and anomalies, translating technical outputs into actionable strategies for stakeholders to mitigate predicted risks.

Tumor Detection Using Image Processing   May 2017 - Jun 2018
- Applied clustering algorithms (K-means) and image preprocessing to automate tumor detection.
- Proposed a method that is computer-aided for the detection of a tumor and its location using the K-means clustering algorithm and thresholding, followed by morphological filtering

CERTIFICATIONS

- PL-300 Microsoft Power BI Data Analyst
- IBM Data Science | IBM Data Science Methodology | IBM Tools for Data Science