

DISHA MENGHANI

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Summary

Data analyst with hands-on experience designing and optimizing ETL pipelines using Python and SQL, and building BI dashboards for demand forecasting and performance reporting. Reduced processing time by 25%, automated reporting workflows saving 40+ hours per month, and improved taxi demand forecast accuracy by 18%. Skilled in integrating disparate data sources and validating data quality, seeking to apply expertise in ETL development and data validation to support robust control workflows.

Education

University of Texas at Arlington

Master of Science, Information Systems

Aug 2024 - May 2026

Arlington, TX

- **Achievements:** Contributed to university career services operations through data tracking, reporting, and student engagement initiatives.

Vivekanand Education Society's Institute of Technology

Bachelor of Technology, Information Technology

Jan 2020 - May 2024

Mumbai, India

- **Achievements:** Organized and coordinated UTSAV, a large-scale cultural and technical fest, managing planning, logistics, and cross-team coordination.

Technical Skills

- **Languages:** Python, R, SQL, SAS, HTML/CSS
- **Developer Tools:** Power BI, Tableau, Excel, GitHub, JIRA, MS Office Suite
- **Databases & Cloud:** MySQL, Oracle, AWS
- **Frameworks & Knowledge Areas:** TensorFlow, Keras, Flask, Bootstrap, Data Visualization, Machine Learning, Predictive Analytics, Statistical Modeling, Data Warehousing, ETL Pipelines, Business Intelligence, Hadoop, Spark
- **Additional Qualifications:** Data Validation Frameworks, Data Orchestration Tools, Unstructured Data Handling

Experience

Jupiter Petrochem

Data Analyst Intern

Jan 2024 - Jul 2024

Mumbai, India

- Analyzed 20,000+ sales, inventory, and procurement records-including unstructured JSON sources-using data validation frameworks to reduce inefficiencies by 12% and improve demand forecasts by 18%.
- Built 5+ Power BI dashboards and designed ETL pipelines with Airflow orchestration to optimize Python/SQL data flows, reducing processing time by 25% and automating reports to save 40+ hours/month.

Eagle Infrastructure Pvt. Ltd., India

Project Management Intern

Jul 2023 - Dec 2023

Maharashtra, India

- Led delivery of data retention and compliance initiatives in regulated environments by translating control requirements into technical ETL specifications, supporting platforms handling hundreds of thousands of records monthly and maintaining 100% audit-compliant releases.
- Translated business and regulatory requirements into project plans and PRDs, improving on-time delivery by 15%, reducing rework by 10%, and improving release stability across the SDLC
- Coordinated with engineering, compliance, operations, and vendors to implement data validation frameworks and orchestrate scheduled ETL workflows for 3–5 annual releases, improving stakeholder adoption by 15–20% and reducing post-release issues by 10%.

YHills

Machine Learning & Data Analyst Intern

Jun 2023 - Jul 2023

Remote, India

- Developed and deployed ETL pipelines for a Python-based taxi demand prediction model, improving forecast accuracy by 18% on 50,000+ trip records through structured and unstructured data handling.
- Automated preprocessing tasks with Prefect data orchestration tools to cut manual effort by 30%, while applying feature engineering and evaluation techniques that boosted precision by 12%.

Academic Projects

Job Market Analytics

Mar 2025 - Jul 2025

- Scraped and analyzed over 3,000 job posts on Indeed/LinkedIn using Python (BeautifulSoup, Pandas) to find in-demand skills, tools, and technologies for Data Analyst positions.
- Created a Power BI dashboard to show top talents (SQL, Python, Excel, Tableau), average pay, and recruiting patterns across industries and locales.
- Delivered data indicating that SQL was used in 72% of posts and Python in 65%, directing career development strategies and matching training goals with market demands.

Airbnb Data Analytics

Nov 2024 - Jan 2025

- Analyzed 10,000+ Airbnb listings to uncover pricing trends, seasonal demand, and top revenue-generating locations.
- Built interactive dashboards in Power BI to visualize KPIs such as average price, occupancy rate, and customer reviews.
- Enhanced host decision-making by uncovering factors influencing booking rates, leading to insights on competitive pricing strategies.

Publications

- Gesture Controlled Virtual Mouse. *AIP Conference Proceedings (Scopus, Web of Science Indexed)* - May 2024