

# Rohan Dhadwal

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Driven Data Analyst with 3+ years of expertise in utilizing Python, SQL, & BI tools to accelerate business growth

## EXPERIENCE

### Spectral AI

Dallas, TX

Business Analyst Intern | *Power BI, MS Project, MS Excel*

May 2024 - Aug 2024

- **Saved \$560K for the Diabetic Foot Ulcer project within 3 months** by uncovering critical budget discrepancies across 8+ teams using Microsoft Excel pivot tables & lookup functions; Performed budget forecasting to anticipate future variances & enhance risk mitigation
- **Decreased schedule variance from 1.6K to ~0 hours for the Burn project** by integrating Project Web App (PWA) with Power BI, deriving valuable insights to re-baseline the project & enabling data modeling with increased customization abilities using DAX & Power Query
- **Streamlined tracking for 8 projects & management of 110+ resources** by optimizing the PWA dashboard. Conducted an extensive training session to onboard 14 functional leads, driving cross-functional collaboration & increasing stakeholder engagement by 80%

### Amadeus

Bengaluru, India

Reporting Data Analyst | *Python, Machine Learning, SQL, Tableau, MS Excel, Java, Splunk*

Aug 2020 - May 2023

- Look to Book Reports
  - **Revamped marketing strategies & customer involvement** by deriving the look-to-book ratio KPI through analyzing 5M+ shopping & 850k+ booking records, leveraging Splunk APIs for real-time data extraction & advanced SQL queries for data aggregation
  - **Boosted booking conversion rates by 18%** by deploying a logistic regression data model in Python, forecasting reservation likelihood by features - Average Daily Rate (ADR), No-show, Length of Stay (LOS), & booking window, identifying high-value customer segments
  - **Increased \$220K in annual revenue & strengthened client relationships** with 3 top hospitality brands by automating KPI tracking & providing insightful business reports through real-time model performance monitoring & interactive Tableau dashboards
- Data Discrepancy Incident Troubleshooting
  - **Reduced incident backlog from 48 to 7** by leading a root cause analysis initiative & collaborating in an Agile, fast-paced environment
  - **Identified 1.5M+ erroneous records** in the reporting-reservation tables by executing optimized SQL queries with refined filters
  - **Automated data transformation process** with Python scripting to convert raw data into UIDs based on rate plan & price grid objects. Implemented UID synchronization for reliable customer report generation, promoting data-driven decision-making

### Lithion Power

Delhi, India

Data Analytics Intern | *Python, Tableau, MS Excel*

Dec 2018 - Jun 2019

- **Mitigated risk of battery failure by 57%** by utilizing Python for Exploratory Data Analysis (EDA), ensuring accurate anomaly detection
- **Fueled stakeholder growth by 35%** using Tableau reports for fleet management, allowing key insights into e-vehicle & driver metrics
- **Minimized manual effort** by streamlining 24h diagnostic reports with a Python script, enabling leaders to address defective batteries

## SKILLS

Business	: Business Analytics, Data Visualization, Statistical Analysis, Predictive Modeling, A/B Testing, Documentation, Agile
Technology	: Python [NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn], SQL, AWS, Azure, Hadoop, Java, HTML
Tools	: Tableau, Power BI, MS Office [Excel, PowerPoint], SQL Server, Oracle SQL Developer, Splunk, JIRA, Confluence
Interpersonal	: Communication, Analytical & Problem-Solving, Time Management, Self-Starter, Collaboration, Detail-Oriented
Certifications	: <a href="#">Data Analyst with Python</a> , <a href="#">Power BI Fundamentals</a> , <a href="#">Salesforce AI Associate</a> , <a href="#">Azure Fundamentals</a> , <a href="#">PSM I (Scrum)</a>

## PROJECTS

Airbnb NYC Price Prediction ([Git](#)) ([Dashboard](#)) | *Python, Machine Learning, Tableau*

- Engineered a predictive pricing model with a 99%  $R^2$  score for Random Forest & XGBoost regressors through hyperparameter tuning & feature engineering, analyzing occupancy rates, availability ratio, host portfolio, & room type segmentation
- Designed a Tableau dashboard to extract pricing optimization insights, visualizing top revenue neighborhoods & booking hotspots

Point of Sales (PoS) Database Management System | *SQL, NoSQL, AWS, MariaDB, MongoDB, JSON*

- Orchestrated seamless handling of 620+ transactions per second (TPS) by deploying an end-to-end PoS database management system on AWS EC2 instances, streamlining ETL processes, & synchronizing sales & inventory data for improved consistency
- Secured 23% faster query performance by implementing materialized views, indexes, & stored procedures in a MariaDB environment

## EDUCATION

Texas A&M University – MS in Management Information Systems (MIS)

College Station, TX | Aug 2023 - May 2025

*Data Management, Data Analytics, Business Intelligence, Data Warehousing, Data Science, Project Management*

4.0/4.0

Punjab Engineering College – B.Tech in Computer Science & Engineering

Chandigarh, India | Aug 2016 - May 2020

*Database Management Systems, Big Data Analytics, Artificial Intelligence, Data Structures & Algorithms*

3.4/4.0