

# Rahul Chavan

Senior Data BI Engineer | Data Scientist | Analytics Manager

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## Summary:

Results-driven Senior BI & Data Engineer with 8+ years of experience across Amazon, Avnet, and Cepheid, delivering scalable data pipelines, ML-powered analytics, and automation tools that have generated over **\$850M+ in documented business value**. Expert in AWS (**Redshift, S3, QuickSight, Bedrock**), **Python, SQL, Tableau, Power BI, and RPA (UI-Path)**. Proven ability to lead cross-functional data initiatives, build enterprise-grade reporting infrastructure, and translate complex datasets into strategic decisions at scale.

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## TECHNICAL SKILLS:

**Languages** : Python, SQL, VBA Macros, Java, HTML, PHP, CSS, Bash

**Data Engineering** : ETL/ELT Pipelines, SSIS, Data Warehousing, Data Modeling, Data Mining, Andes (Amazon Data Lake), Django, REST API

**Cloud & Platforms** : AWS (Redshift, S3, Lambda, Glue, QuickSight, Bedrock, Amazon-Q), Azure, Databricks, Snowflake

**ML & Analytics** : Machine Learning Forecasting, Time Series (ARIMA), Statistical Modeling, Predictive Analytics, Feature Engineering

**Visualization & BI** : Tableau, Power BI, QuickSight, Klipfolio, Matplotlib, Seaborn

**Automation & RPA** : UI-Path, SAP GUI Scripting, VBA Macros, Python Automation, CI/CD

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## EMPLOYMENT EXPERIENCE:

### Senior Business Intelligence Engineer, Amazon, Phoenix, AZ

Apr 2022 – Ongoing

- Applied **AI-powered analytics** and machine learning models to detect counterfeit activity, identify brand abuse patterns, and quantify Amazon's value to brands across worldwide marketplaces.
- Leveraged AWS tools (**Redshift, S3, Amazon-Q, QuickSight, Bedrock**) for data warehousing, cluster management, and large-scale dataset processing through Andes (**Amazon Data Lake**).
- Built SQL-based back-end databases and developed company-wide reporting dashboards in **QuickSight** that directly influenced leadership decisions.
- Designed database architecture, performed data mining, statistical modeling, and ETL automation to extract, process, and analyze multi-terabyte datasets — generating actionable insights on customer behavior and product performance.
- Collaborated with cross-functional teams (**Sales, BD, Finance, Operations**) to align data-driven insights with competitive positioning strategies.
- Built profitability analysis framework for the Transparency program — collaborating with Finance, Operations, and Sales to measure FC Cost, Promotions, Revenue, and write-offs, identifying brands to grow or offboard.

### Senior Automation Developer, Avnet, Phoenix, AZ

Mar 2020 – Apr 2022

- Built **RPA robots using UI-Path** to automate Supply Chain business processes, resulting in savings of **35 FTE** and generating **\$100M/year** in cost savings.
- Created and maintained company-wide **SQL Server database**; built stored procedures, **SSIS jobs**, and admin functions to back the **SAP** database with daily automated merge scripts.
- Developed **Power BI** reports to track NMI, Logistics, Finance, Inventory, and Safety Stock KPIs across the enterprise.
- Built interactive front-end web applications using **HTML, CSS, PHP, and Python-Django** to enable real-time order tracking by business users.

### Supply Chain Big Data Analyst, Cepheid, San Jose, CA

May 2019 – Feb 2020

- Developed end-to-end **ML forecasting pipeline (Python, SQL, XGBoost, ARIMA)** to predict future demand and optimal restock quantities, reducing SAP MRP inventory inaccuracy by 25%.
- Built dashboards in **Tableau, Power BI, and Klipfolio** to track Supply Chain KPIs and give leadership real-time visibility into procurement and inventory performance.
- Automated BI reporting via **SAP GUI scripting using VBA macros**, eliminating approximately 2 FTE in manual reporting overhead.
- Led company-wide **President's Kaizen initiative using DMAIC and data-driven Lean methodology**.

### Data Engineer, GEP Worldwide, India

Sep 2016 – Aug 2017

- Developed **VBA macros** to automate reporting and data analysis, saving approximately **800 hours/month** in manual effort.
  - Performed procurement data analysis to identify supplier performance, pricing, payment terms, and spend; developed KPIs to track supplier performance and OTD.
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## Projects:

### Profitability Analysis — Amazon Counterfeit Program

Jan 2025 – Mar 2025

- Collaborated with Finance, Operations, and Sales to build KPIs measuring brand profitability across FC Cost, Promotions, Revenue, and write-offs.

### Time Series Forecasting Tool — Python & ML.

Mar 2019 – Apr 2019

- Built forecasting tool using NumPy, Scikit-learn, Seaborn, and ML algorithms to predict future demand, Safety Stock, MOQ, and DU for high-demand materials and designed dashboards in Python, SQL, Power BI, and Tableau for quick insights.
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## Education:

### Master of Science, Industrial Engineering | GPA 3.7/4.0

Jan 2018 – Dec 2019

San Jose State University | San Jose, CA | Green Belt Certified

### Bachelor of Engineering, Electronics

Aug 2012 – Jun 2016

University of Mumbai | India

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