# Rahul Bhattacharya

Experienced Data Scientist with 15+ years in Finance and Accounting initiatives, leverages technical knowledge, business perspective, analytical skills, and passion for data science to develop actionable insights, drive strategic planning, and optimize operational outcomes. Proven ability to collaborate with cross-functional teams and present data-driven recommendations to senior leadership. Expertise across healthcare, retail, finance, accounting, and credit analysis domains.

## Contact

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## Skills

- Business Acumen
- Process Design & Improvement
- Data Analysis & KPI Derivation
- Strategic Thinking
- Decision Making
- Writing, Graphs & Visualizations
- Creativity
- Adaptability
- Tenacity
- Descriptive & Content Writing

## Technical Skills

- Data Visualizations — Advanced
- Visual Insights of Statistical Trends — Advanced
- Data Cleansing & Insight Derivation — Advanced

## Work History

**2024-12 - Current**

### Senior Data Scientist
*Walgreens (TCS Project), Deerfield, Illinois*

- Developed and deployed advanced **scheduling and forecasting models** using **Python** to support data-driven planning.
- Analyzed historical **trends and patterns** to improve forecast reliability and scheduling precision.
  Built and **optimized** time-series models in **Databricks** notebooks, leveraging PySpark for experimentation.
- **Automated** data ingestion pipelines using **Azure Data Factory** to feed real-time and batch data into forecasting models.
- Applied **data cleaning** and feature engineering techniques in **Python** to **enhance model input** quality.
- Created modular and reusable **Python** components for forecasting logic to **simplify maintenance and scaling**.
- Integrated external signals and business constraints to fine-tune model outputs in **Databricks**.
- Scheduled batch predictions and model refresh cycles using **Azure Data Factory** triggers and pipelines.
- Collaborated across teams to validate **model** assumptions and continuously improve **prediction accuracy**.
- Delivered **measurable improvements** in scheduling efficiency, reducing manual intervention through **automation**.

**Skills:** Data Science • Python • Databricks • Azure Data Factory • Azure Data Lake • Statistical Data Analysis • Cluster Analysis

**2023-07 - 2024-11**

### Senior Data Analyst and Technical Architect
*United Healthcare Group (TCS Project), Chicago, IL*

- Designed business intelligence capabilities with the development of advanced **analytical**

| Skill | Level |
|---|---|
| Predictive Alerts & Analysis of Processes | Advanced |
| Automation & Quality Control | Advanced |
| Performance Tuning Initiatives | Advanced |
| Oracle Data Integrator | Very Good |
| Tableau Data Analytics | Very Good |
| Microsoft Power BI Reporting | Very Good |
| Oracle BI EE | Very Good |
| Oracle PLSQL | Advanced |
| Informatica PowerCenter | Very Good |
| Unix Shell Scripting | Very Good |
| PowerShell & Windows Scripting | Good |
| Advanced Excel Data Analysis and Visualizations | Very Good |
| Oracle EPM | Very Good |
| Oracle Hyperion Data Relationship Management | Advanced |
| Oracle Hyperion Essbase | Very Good |
| Oracle Hyperion Planning | Good |
| HTML / CSS / Javascript | Good |
| Talend Data Integration | Very Good |
| Ab Initio | Good |
| Azure Data Factory | Very Good |

**dashboards** and KPIs using **healthcare clinical data** in collaboration with pharmacy managers, product owners, and technology leadership teams.

- Implemented **scalable Power BI designs** for **patient data analytics** using best practices for data modeling and **migrated over 50%** of static Tableau reports to interactive Power BI dashboards.
- Built **dynamic SSIS interfaces** using **healthcare medication data** with separate systems to ensure seamless integration between databases and analytical tools, create **SQL Agent** jobs, maximizing system efficiency across departments.
- Optimized the **performance** of complex **SQL Server** stored procedures and **Tableau** dashboards to track **financial and operational performance** across all business units.

**2022-07 - 2023-05**

## Data Analytics Lead
*Bombardier (TCS Project), Chicago, IL*

- Streamlined existing **financial data landscape and challenges** to design new **roadmap** for scalability and determined the potential organizational benefit and **data model** across each system.
- Established robust performance metrics for tracking progress within the **aeronautical operations data engineering** using Databricks systems.
- Participated with business and technical teams to design key logics in **cross-departmental strategy meetings** as a representative of the analytics team.
- Conducted **exhaustive interactive analyses** using libraries like Pandas and NumPy to clean, filter, and transform data in Python.
- Writing Python scripts to pull data from CSVs and load to databases to **identify trends and data patterns** and inform executive leadership for strategic business decisions.

**2022-03 - 2022-06**

## Data Analyst and Data Governance Lead
*Galderma (TCS Project), Chicago, IL*

- Developed custom **operations data reconciliation jobs, reports** and Databricks packages to extract actionable insights from complex datasets.
- Spearheaded the development of an **automated reporting** system in Power BI for streamlined tracking of KPIs **reducing manual reporting by over 25%.**
- Championed a culture of innovation by encouraging experimentation with new

Databricks

■ ■ ■ ■ □
Very Good

Python

■ ■ ■ ■ □
Very Good

SQL Server

■ ■ ■ ■ ■
Advanced

ReactJS

■ ■ ■ □ □
Good

Angular

■ ■ ■ □ □
Good

Java

■ ■ ■ ■ □
Very Good

Spring Boot

■ ■ ■ □ □
Good

## Languages

English

■ ■ ■ ■ □
Very Good

Bengali

■ ■ ■ ■ ■
Excellent

Hindi

■ ■ ■ □ □
Good

approaches to **problem-solving** using data-driven insights.

- Trained team members on **best practices** in data analytics, fostering a culture of continuous improvement.

**2017-10 - 2022-02**

## Data Analytics and EPM Lead

*Walgreens (TCS Project), Deerfield, IL, USA*

- Optimized business requirements and built **financial models** for efficient reporting and **KPI/OKR measurement** using **Data Classification**, **Cluster Analysis**, **Forecasting**, and **Outliers Modeling**.
- Implemented **Predictive Financial Data Analysis** process using statistical functions and **Machine Learning** concepts to forecast systems usability and real-time accuracy using **Tableau**, ODI, PLSQL, PowerShell, Databricks, **Microsoft Power BI**.
- Identified and implemented system **optimizations** that **resolved over 75%** process issues and enabled **transparency of business workflows** and critical financial **data quality controls**.
- **Discovered key metrics** of financial systems usage by **dimensional analysis** of business data in **Hyperion Planning** and **EPM** application logs using Python.
- Influenced and collaborated with business and technical teams to define better requirements for organizational processes and **achieve higher productivity and accuracy standards**.
- Analyzed large volumes of application log files for **issue pattern identification** using **Ab Initio** and **Unix Shell Scripting** for enhanced system availability.
- Engaged in C-level executive reporting and dashboard analysis for **insightful business intelligence reporting**.

**Skills:** Financial Data Classification · Cluster Analysis · Strategic Forecasting · Outliers Model · Oracle Hyperion Data Relationship Management (DRM) · Hyperion Planning · Unix · Tableau · SQL · Microsoft Excel · Oracle Data Integrator (ODI) · Ab Initio

**2013-06 - 2017-09**

## Master Data Management (MDM) and Analytics Lead

*Walgreens (TCS Project), Deerfield, IL, USA*

- **Designed and implemented Oracle EPM** and MDM (Master Data Management) application in DRM after assessing strategic implications of business intelligence data for **Oracle General Ledger** and other **Financial Accounting data** areas.
- Designed and created **financial data models** for

**data processing and reporting interfaces** using Oracle Data Integrator (ODI), Unix, PLSQL, OBIEE to integrate financial accounting systems.

- Identify **Process Improvement (PI) strategies** prior to actual impact and brainstorming potential alert mechanisms with leadership thereby **optimizing 90% of impacted business areas**.
- Devised and implemented **real-time financial data quality** monitoring process to ensure **quality controls of business data** and maintain robust **data integrity**.
- Designed and implemented **finance and accounting system enhancements** after extensive requirement meetings and **data mapping sessions** with **30+ business stakeholders**.
- **Visualization and graphical representation** of critical KPIs and financial data in easily comprehensible and actionable format.

**Skills:** Data Governance • Hyperion Planning • Predictive Analytics • Forecasting • Oracle Hyperion Data Relationship Management (DRM) • ReactJS • Angular • SQL • Master Data Management • Talend • Data Governance • Data Integration

| 2011-10 - 2013-05 | **Senior Data Analyst and Report Developer** |

*Experian (TCS Project), Kolkata, WB, India*

- **Designed data warehouse** and implemented large scale **operations data** processing KPIs and performance trend analytics using Informatica PowerCenter, Unix, Windows Batch Scripting, OBIEE, PLSQL.
- Optimized **performance of financial data intensive processes** to achieve million dollars revenue savings by **reducing 70% application downtime**.
- Developed innovative solutions to persistent problems by **identifying business improvement areas** and optimizing reporting and load designs.

**Skills:** Data Warehousing • Extract, Transform , Load (ETL) • SQL • OBIEE • Informatica PowerCenter • Data Analysis • Data Visualization • Unix • Application Configuration

| 2010-11 - 2011-09 | **Data Analyst and Report Developer** |

*Experian (TCS Project), Kolkata, WB, India*

- Designed and developed **scalable parameterized infrastructure processes** using complex data loading and **financial credit risk assessment logics** using Unix, Informatica PowerCenter, DAC and PLSQL.

- Implemented **financial reporting dashboards** using OBIEE and **automated data quality monitoring** and anomaly detection by Unix and PLSQL.
- Generalized and implemented **application development standards** after due diligence and study across all business units enabling faster decision-making.

**Skills:** Data Analytics • Data Warehousing • Extract, Transform, Load (ETL) • SQL • OBIEE • Unix • Informatica PowerCenter • Application Configuration

**2009-12 - 2010-10**

### Oracle Database Administrator

*Toyota Financial Services (TCS Project), Kolkata, WB, India*

- Implemented **Oracle Virtual Private Database** to enable role based financial data security for **1000+ report users across multiple business units**.
- Configured **record level and field level access** using access control roles as part of financial data security modelling in Oracle database.
- Influenced **analysis of business data security** and optimized access control roles and processes.

**Skills:** Database Management System (DBMS) • Oracle Database Administration • Information Security • PL/SQL • SQL • Oracle Database Configuration • Oracle Database Maintenance

## Certifications

| | |
|---|---|
| **2020-09** | Tableau - Tableau Desktop Specialist |
| **2020-03** | University System of Georgia - Six Sigma Yellow Belt |
| **2019-03** | Microsoft - Data Analysis Essential Skills |
| **2019-02** | PWC - Problem Solving with Excel |
| **20180** | UiPath - Robotic Process Automation Orchestrator |
| **2018-09** | University of Michigan - Model Thinking |
| **2018-08** | University of Pennsylvania - Accounting Analytics |
| **2018-06** | Johns Hopkins University - Exploratory Data Analysis |
| **2018-05** | University of Pennsylvania - People Analytics |
| **2018-05** | University of Pennsylvania - Operation Analytics |
| **2018-03** | University of Pennsylvania - Customer Analytics |
| **2016-08** | Johns Hopkins University - R Programming |
| **2016-03** | Deeplearning.ai - Neural Networks and Deep |

Learning

**2013-04**    Oracle Essbase Certified Implementation Specialist

Oracle Business Intelligence Implementation Specialist

Oracle Hyperion DRM Administration

## Education

**2005-06 -**    **Bachelor of Technology: Information**
**2009-06**    **Technology**

*Techno India - Salt Lake, Kolkata, WB, India*

- Graduated with 8.54 GPA
- Scored 89% (X, State rank 62 ) and 85% (XII, High School)

## Interests

Blogging, Reading and Travelling