

# HARSHVARDHAN SINGH RATHORE

## Data Analyst

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Data professional with 4+ years of experience in analytics and data engineering, skilled in Python, SQL, and PySpark for data analysis, statistical modeling, and BI solutions. Proven ability to deliver actionable insights, ROI analysis, and campaign measurement for business strategy and marketing optimization. Strong background in data wrangling, visualization (Tableau, Power BI), and statistical techniques like hypothesis testing, regression, and A/B testing. Highly collaborative, with excellent communication and stakeholder management skills. Passionate about translating complex data into business value and driving innovation.

### SKILLS

**Programming:** Python, Javascript, SQL, Git, Bash, Excel VBA

**Cloud & Big Data:** AWS (S3, Lambda, EMR, EC2, Glue, Step Functions)

**Data Analysis:** ETL, Advanced Excel, Data Wrangling, Data Transformation, Statistical Analysis, KPI Tracking

**Statistical Techniques:** Hypothesis Testing, Regression, A/B Testing, Data Mining

**Data Visualization:** Tableau, Power BI, Matplotlib, Seaborn, Data Storytelling

**Soft Skills:** Communication, Stakeholder Management, Problem Solving, Critical Thinking, Project Management

**Languages:** English (Fluent), Hindi (Native), French (B1)

### PROFESSIONAL EXPERIENCE

#### Business Process Expert ► Dassault Systemes | Jul 2021 – Current

- Designed and deployed data-driven dashboards to monitor global energy KPIs, supporting decision-making and sustainability initiatives across business units.
- Applied statistical modeling (regression, normalization) in Python to standardize energy consumption data and uncover efficiency opportunities.
- Developed ETL pipelines for aggregating data from internal systems and external sources, ensuring clean, structured input for analytics.
- Conducted root cause analysis and managed issue tracking using problem management frameworks, improving system reliability and reducing repetitive incidents.
- Functioned as a key coordinator for internal applications: gathered requirements, validated functionality, and ensured development aligned with business priorities.
- Collaborated with cross-functional stakeholders (IT and Business) to prioritize features, implement automation, and optimize workflows.
- Conducted training sessions and documentation handovers to ensure sustainable use of tools and operational systems.

## Data Analyst ► Dassault Systemes | Jan 2021– Jul 2021

- Automated a real estate financial modeling tool using Excel VBA, reducing manual input and processing time by over 70%.
- Redesigned the tool's architecture to support dynamic inputs, scenario analysis, and automated reporting for investment decisions.
- Collected and analyzed historical business case data to identify functional gaps and performance bottlenecks.
- Implemented validation and QA routines in VBA to enhance model reliability and minimize user errors.
- Collaborated with financial and facilities teams to define tool requirements and align outputs with strategic KPIs.

## Software Development Intern ► ENSISA | Jan 2016– Mar 2016

- Designed and implemented a solution for the "Rush Hour" puzzle using C++, employing an advanced three-block network algorithm (MVC approach).
- Enhanced user experience by developing an intuitive graphical interface using SDL 2.0.

## EDUCATION

2024 – 25 | **Bootcamp – Data Science and AI** ► Le Wagon

2019 – 21 | **MS in Management Engineering (GE), Management Consulting** ► Audencia Business School

2013 – 17 | **Bachelors in Technology, Computer Science** ► BK Birla Institute of Engineering & Technology

### Trainings and Certifications:

2023 | **IS Requirement Management Certification** ► Dassault Systemes

2021 | **IT-IS Data Management Certification** ► Dassault Systemes

2021 | **Business Process Analyst** ► Dassault Systemes

2020 | **Tableau Essential Training** ► LinkedIn Learning

2020 | **Advanced SQL for Data Scientists** ► LinkedIn Learning

2020 | **SQL Data Reporting and Analysis** ► LinkedIn Learning

2020 | **Excel VBA: Process Modeling** ► LinkedIn Learning

### Professional Achievements & Academic Projects:

- **International Internship in France (Duration 2 months)** : Université de Haute-Alsace – UHA, Mulhouse et Colmar  
Designed and developed a solution to conquer the challenging "Rush Hour" puzzle utilizing the C++ programming language
- **Data Analyst Freelancer** on Fiver.com, completed over 20+ projects

#### **Professional Awards:**

- Awarded **3DS Innovation Forward 2022** for an innovative project at Dassault Systemes
- Got **3<sup>rd</sup> Best Entrepreneurial Project** among 125 projects Entrepreneurial Projects at Audencia Business School in 2019
- **Microsoft Student Partner** for Microsoft at B K Birla Institute of Engineering & Technology in 2016
- **Poster Paper Presentation** at International Conference on Communication System 2015 on Optical Fiber Communication on Imperative Computer Programming Language

## INTERESTS

Basketball, Skiing, Scuba Diving (N2) and Travelling