

Vishal Bhardwaj

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WORK EXPERIENCE

Servewell HR

Data Analyst

November 2023 – Present

- **Project: Revenue Leakage Analysis & Recovery Insights**
Identified revenue leakage points and automated anomaly detection.
 - Queried and merged transaction data from multiple business units using SQL.
 - Detected mismatches in billing vs. delivery, late payments, and missing invoices.
 - Developed Python automation to flag anomalies and generate reports.
 - Helped recover ₹1.2 Cr in missed invoices; reduced future leakages by 40%.
- **Project: Client Profitability Analysis & Segmentation Dashboard**
Created dashboards and client segmentation models to improve profitability.
 - Calculated true client profitability by combining revenue, cost, and support data.
 - Built Excel dashboards with filters (industry, geography, tenure, profit tier).
 - Applied Python for client segmentation into High/Medium/Low tiers.
 - Insights led to a 17% rise in average client profitability.

Plaksha University, Mohali

Teaching Fellow

August 2022 – July 2023

- Taught Programming & Data Structures and Computational Thinking to 98 students.
- Designed syllabus, guided assignments, conducted tutorials, and led labs.
- Set and graded quizzes; mentored students for improved outcomes.
- **Admissions and Outreach:** Handled student applications, extracted data, and prepared reports.

Indian Institute of Technology (IIT) Guwahati Research Intern

Summer 2018

Guided by Professor Natesan Srinivasan

- Studied fundamental concepts of existence and uniqueness in numerical methods using MATLAB.
- Applied computational techniques to validate theoretical insights and deepen understanding of numerical analysis.

EDUCATION

M.Sc. in Mathematics and Computing 2020 – 2022

National Institute of Technology (NIT) Manipur

CGPA: 8.89/10

Thesis: Prime Divisors in an Arithmetic Progression and Explicit ABC Conjecture

Supervisor: Professor Shanta Laishram

Leadership Roles

Member, Departmental Postgraduate Committee

President, Mathematics Society

Placement Coordinator

B.Sc. in Mathematics

2016 – 2019

GD Goenka University

GPA: 8.24/10

AWARDS AND HONORS

1. **All India Rank** 861/13,186 in IIT JAM 2020
2. Best Co-Curricular Activities Award, GD Goenka University 2019
3. Secured **First Rank** in Undergraduate Studies, GD Goenka University 2016–2019
4. *Dean's List* for Academic Excellence, GD Goenka University 2016–2019

COMPUTER SKILLS

Programming & Scripting: Python (Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn), R, C++, SQL (PostgreSQL, MySQL), Bash

Data Analysis & Visualization: Microsoft Excel (Advanced), Power BI, Tableau, SAS, A/B Testing, Predictive Modeling

DevOps & Tools: Git/GitHub, Jupyter Notebook, Google Colab, Docker, Kubernetes, Linux, Windows

GRANTS AWARDED

Received a travel grant of **INR 10,248** for attending Formal Power Series & Algebraic Combinatorics (FPSAC) at Indian Institute of Science (IISc), Bengaluru. July 2022

PUBLICATIONS

1. **Vishal Bhardwaj**, Smita Sood, Perna Sharma, and Varsha Sharma. *Seasonal Variation with Respect to Water Quality Index (WQI) of Ghaggar River*, November 2018. [pdf]