

## Employment

Nov 2023 – **Data Analyst, Servewell HR**

Present **Projects:**

- **Real-Time Revenue Anomaly Detection System:** Built an automated Python and SQL pipeline to detect billing, invoicing, and payments anomalies. Integrated data from multiple departments, flagged mismatches, and sent daily exception reports. Contributed to the recovery of over **67 Lakhs** in missed invoices and reduced revenue leakage by 40%.
- **Loan Application Risk Profiling & Credit Segmentation:** Developed a segmentation model for loan applicants using financial indicators and SQL queries. Classified customers into risk categories (P1–P4) and built Excel dashboards for visualization. Enabled faster approvals and improved risk assessment accuracy.
- **Compliance Automation for KYC/AML Review:** Created a rule-based engine to identify suspicious transactions using KYC and activity logs. Automated alerts and compliance reports using Python and SQL. Reduced manual review workload by 70% and enhanced audit readiness.

Aug 2022 – **Teaching Fellow, Plaksha University, Mohali**

July 2023 **Courses Taught:**

- **Summer 2023 – FM 121: Programming and Data Structures**  
Instructors: [Sandeep Manjanna](#), [Manoj Kannan](#)
- **Spring 2023 – FM 131: Programming and Data Structures**  
Instructors: [Sandeep Manjanna](#), [Manoj Kannan](#)
- **Fall 2022 – FM 111: Computational Thinking**  
Instructors: [Kanchi Gopinath](#), [Manoj Kannan](#)

**Responsibilities:** Syllabus planning, lab instruction, student mentoring, tutorials, grading assignments, and quizzes for a cohort of 98 students.

## Education

2020–2022 **M.Sc., Mathematics and Computing, National Institute of Technology, Manipur**

Thesis: *Prime Divisors in an Arithmetic Progression and Explicit abc-Conjecture*

Advisors: [Shanta Laishram](#), Indian Statistical Institute Delhi

2016–2019 **B.Sc., Mathematics, GD Goenka University, Gurugram**

Thesis: *A Study of Hypergeometric Functions*

Advisor: [Smita Sood](#)

## Internships

Summer 2018 **Research Intern, Indian Institute of Technology, Guwahati**

Area: Numerical Analysis for ODEs

Advisor: [Natesan Srinivasan](#)

## Publications

- [1] *Seasonal Variation with respect to Water Quality Index of Ghaggar River*, with Smita Sood et al. (2018). [\[PDF\]](#)

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## Projects

2017–2018 **Undergraduate Projects**, *GD Goenka University, Gurugram*

- Industrial Input Panel for Blind Operator
- Distance Measurement Using Ultrasonic Sensor
- Animated LED Cube, Smart Auditorium System
- Statistical Analysis of Biomedical Waste in India
- Forecasting of Electric Vehicle Adoption

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## Skills

Programming Python, SQL, Data Structure and Algorithm, Bash

Data Analysis Statistical Analysis, Data Cleaning & Preparation, Excel (Advanced), Power BI, Tableau

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## Conferences and Workshops

- 2023 [Southern Regional Number Theory Conference \(Online\)](#), LSU
- 2022 [Bayou Arithmetic Research Days \(Online\)](#), LSU
- 2022 [FPSAC 2022](#), IISc Bangalore
- 2022 [Workshop on L-functions and Circle Method \(Online\)](#), ICTS-TIFR
- 2020 Applied Physics and Mathematics, NIT Manipur
- 2017–2018 REDSET and IC3TSN, GD Goenka University

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## Awards and Honors

- 2020 All India Rank 861 in IIT JAM (13,186 candidates)
- 2019 Best Co-Curricular Activities Award, GD Goenka University
- 2016–2019 1<sup>st</sup> Rank in UG Studies; Dean's List Honoree, GD Goenka University
- 2022 Travel Grant of INR 10,248 for FPSAC 2022, IISc Bangalore

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## Leadership and Service

- 2020–2022 Student Member, DPPC, NIT Manipur
- 2020–2022 President, Mathematics Society, NIT Manipur
- 2021–2022 Placement Coordinator, Mathematics Dept., NIT Manipur

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## Outreach and Volunteering

- 2023 Teaching Assistant, Young Technology Scholars, Plaksha University
- 2022–2023 Admissions & Outreach, Plaksha University
- 2022 Management Team, Young Creators League