

# MRITUNJAY KUMAR SINGH

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## Education

**Vellore Institute of Technology Bhopal, Madhya Pradesh**

**CGPA- 9.2**

*B.Tech- Electronics and Communication Engineering*

*2021-2025*

## Technical Skills

**Languages:** Python , SQL , Java

**Technologies/Libraries:** Pandas , NumPy , Seaborn , Matplotlib , Plotly

**Tools:** Power BI , MySQL , SQL Server Studio , MS Excel , Jupyter Notebook , GitHub , Matlab , MS Office , ChatGPT

**Other Skills:** ETL Processes , EDA , Excellent Communication , Critical Thinking , Problem Solving , Canva and Design

## Experience

### TutorSolve

*Freelance*

*Remote*

- Delivered 50+ high-quality assignment solutions in mathematics and electronics domain, utilizing tools like MATLAB resulting in 98% + client satisfaction and repeat requests.
- Simulated and analyzed complex electronic circuits and control systems using Simulink and Proteus, helping students achieve improved academic performance by up to 30% in practical lab submissions.

## Projects

### Road Accident Analysis 📊

- Built an interactive Power BI dashboard for analyzing 2 years of road accident data (2021–2022), streamlining reporting efforts by over 60% through automated KPI tracking across 10+ metrics.
- Cleaned, transformed, and modeled large raw datasets using Power BI's Power Query and DAX, reducing manual data processing time by 40% and enabling real-time insights by area, time of day, road type, and vehicle category.
- Delivered a data-driven decision-support tool for stakeholders with customized visuals, slicers, and drill-through features — enhancing insight extraction speed by 50% and aiding faster identification of high-risk accident zones and trends.

### Customer churn rate 📊

- Performed exploratory data analysis (EDA) on a telecom customer dataset using Python to uncover churn drivers, revealing that month-to-month contracts had a 42% churn rate, guiding targeted retention strategies.
- Identified payment method as a key churn predictor, where customers using electronic checks churned at 45%, leading to actionable insights for payment-based customer segmentation.
- Built visual dashboards showcasing churn by contract type, tenure, demographics, and internet service, highlighting that 50% of churn occurred within the first year

### Hospital Emergency Room Analytics 📊

- Developed a multi-layered Power BI dashboard for a hospital emergency room system, analyzing over 10,000+ patient records to track KPIs such as daily patient visits, average wait time, referral patterns, and satisfaction scores — enabling 50% faster operational reporting for healthcare stakeholders.
- Executed complete ETL and EDA pipeline, including data cleaning, transformation, and modeling in Power BI; created 4 interactive dashboards featuring DAX-based metrics, slicers, and sparklines for real-time decision-making.
- Delivered data-driven insights that identified 20% higher referral load on cardiology and neurology, highlighted peak wait times during late evenings, and helped reduce manual data analysis efforts by 60%, significantly optimizing ER resource allocation and patient flow management.

## Leadership / Extracurricular

- Led a 20-member team in a data-driven design and fabrication project of an Electric All-Terrain Vehicle (E-ATV), performing subsystem performance analysis, integration planning, and iterative testing for competitions like BAJA.
- Selected among top participants in the “Trash to Treasure Ideation Hackathon” (2023) under the Electronic Waste category, presenting a data-backed solution for sustainable tech reuse and e-waste management.
- Secured All-India Rank 2 in a national sales strategy competition by driving market research, competitor benchmarking, and data visualization, delivering actionable insights to shape customer targeting and pricing decisions.

## Certifications

- SQL(Basics and Intermediate) - Hackerrank
- IBM Data Analyst Professional Certificate – Coursera
- Machine Learning Specialization – Coursera