

Deepayan Sinha

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EDUCATION

Manipal Institute of Technology, Manipal

Bachelor of Technology in Electronics and Instrumentation

CGPA: 8.37

Oct, 2020 – Jul, 2024

Maharishi Vidya Mandir, Silpukhuri

CBSE

Percentage: 89%

Apr, 2018 – May, 2019

EXPERIENCE

Data Analyst Intern

Robert Bosch

Feb, 2024 – Jun, 2024

Bengaluru, India

- Analyzed large datasets from various automotive systems and ECUs, extracting meaningful insights that led to a 15% improvement in decision-making accuracy for engineering teams.
- Developed 5+ reports and dashboards using Power BI, delivering actionable insights that reduced analysis time by 20% and highlighted key trends, helping to optimize automotive performance metrics.
- Performed data cleaning and pre processing on CAN signal data (handling 1000+ signals) to ensure 99% data accuracy for analysis, which improved the reliability of downstream decision-making processes.
- Collaborated with embedded software engineers to analyze system data and suggest improvements for ECU performance, leading to a 10% reduction in error rates and improved system efficiency.

Undergraduate Research Intern

IIT, Guwahati

June, 2022 – July, 2022

Guwahati, India

- Engineered and Developed a system for Microwave Wireless Power Transfer to recharge a drone wirelessly.
- Developed a systematic Excel & MATLAB-based approach to evaluate power radiation parameters, generating insights that facilitated testing and comparison across 8 different antenna models.
- Selected and Implemented the best configuration, which was later fabricated and Tested through 3D printing of the antenna, validating the design in an anechoic chamber.

PROJECTS

Sales data Analysis | SQL, Excel, Power BI, MySQL

- Investigated sales performance metrics through advanced data analytics tools, identifying 15 high-volume products and 8 low-demand items; insights were leveraged to optimize marketing strategies and enhance overall product placement.
- Generated comprehensive Power BI reports that highlighted market trends and customer behavior, providing actionable insights that could lead to a potential increase in product engagement by 40business.
- Delivered actionable insights for business improvement, focusing on optimizing sales strategies for under performing products.
- Implemented advanced data analysis techniques to identify trends, optimize resource utilization, and suggest process improvements.

COVID-19 Data Analysis | SQL, PostgreSQL, MS Excel

- Analyzed global COVID-19 data, identifying the worst-affected regions by calculating deaths per million, vaccination rates, and infection trends.
- Conducted in-depth analysis of demand (healthcare resources) and supply (vaccines), offering recommendations that could optimize resource allocation, potentially reducing supply wastage by 30% if implemented in a real-world scenario.
- Optimized SQL queries for data extraction, transformation, and loading (ETL), ensuring efficient data processing.
- Conducted in-depth statistical analysis of COVID-19 impact across different regions, uncovering significant patterns that could guide resource optimization strategies. These insights suggest a potential 30% reduction in medical supply wastage if implemented in a real-world scenario

TECHNICAL SKILLS

Languages: Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS

Developer Tools: Visual Studio Code, Excel, Power BI

Libraries: pandas, NumPy, Matplotlib