Deepayan Sinha

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Education

Manipal Institute of Technology,Manipal CGPA: 8.37
Bachelor of Technology in Electronics and Instrumentation *Oct, 2020 – Jul, 2024*

Maharishi Vidya Mandir,Silpukhuri Percentage: 89%
Science *Apr, 2017 – May, 2018*

Projects

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

- Conducted detailed analysis of sales data, identifying the best-selling and least-selling products.
- 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 40% if implemented by a business.
- Delivered actionable insights for business improvement, focusing on optimizing sales strategies for underperforming 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), providing recommendations for optimizing resource allocation.
- 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.

Experience

Software Developer Intern Feb, 2024 – Jun, 2024
Robert Bosch *Bengaluru, India*

- Designed and implemented Controller Area Network (CAN) frames in accordance with AUTOSAR architecture, ensuring robust and efficient communication within automotive systems.The logic for this was coded in embedded C.
- Conducted static code analysis adhering to MISRA guidelines, identifying 100+ critical vulnerabilities in the codebase, and implemented fixes to ensure full compliance with industry regulations for automotive software development.
- Evaluated and enhanced test coverage to measure the extent of code execution during testing, significantly reducing the likelihood of undetected software bugs while achieving 100% code coverage

Undergraduate Research Intern June, 2022 – July, 2022
IIT, Guwahati *Guwahati, India*

- Engineered and Developed a system for Microwave Wireless Power Transfer to recharge a drone wirelessly.
- Developed a systematic 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.

Technical Skills

Languages: Python, C/C++, SQL (Postgres,MySQL), JavaScript, HTML/CSS
Developer Tools: VS Code, Visual Studio,Excel, Power BI
Libraries: pandas, NumPy, Matplotlib