KUSAL SAI AYINALA

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PROFESSIONAL SUMMARY

Data Analyst with 2+ years of experience in the **healthcare industry**, skilled in **data visualization, SQL, Python, Power BI and Tableau**. Adept at **cleaning, analyzing, and interpreting complex datasets** to provide actionable insights. Experienced in **building dashboards and automating reports** for improved business decisions. Passionate about **leveraging data-driven strategies** to optimize efficiency.

EDUCATION

MS in Data Science University *of North Texas, Denton, TX, USA*   May-2025
Courses: Applied Machine Learning for Data science, Data Mining, Data Analysis
Bachelor of Technology in Electronics & communication Engineering – *JNTUA, AP, India*   May-2021
Courses: *Electronic & Devices, Signals & Systems, Probability & Statistics*

TECHNICAL SKILLS

Languages: Python | C | Object Oriented Programming | SQL
Web development: REST API | JavaScript | HTML | CSS
Tools: MySQL | MongoDB | VS Code |Power BI |Tableau| Eclipse| Jupyter | Postman | IBM ACE| IBM BAW
Technologies: RAG, Llama index, Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow, Beautifulsoup, Agile Methodology, Scrum

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WORK EXPERIENCE

Data Analyst
Cognizant Technology Solutions | Hyderabad, India | March 2023 – Jan 2024
- Analyzed and processed large **healthcare datasets** using **SQL, Tableau, and Python**.
- Designed and developed **interactive dashboards** using **Power BI & Tableau** to track key performance metrics.
- Identified trends and patterns in medical claims data, leading to a **15% reduction in processing errors**.
- Automated data cleaning processes, reducing manual effort by **30%**.
- Conducted **data storytelling** to present findings to stakeholders and enhance decision-making.

Programmer Analyst
Cognizant Technology Solutions | Hyderabad, India | Oct 2021 – Feb 2022
- Integrated **multiple APIs** to connect disparate systems for data exchange and automation.
- Developed and tested RESTful APIs using **Postman, IBM ACE, and IBM BAW**.
- Optimized data pipelines, improving system efficiency by **20%**.

PROJECTS

Open AI Tutor
- Designed a Open AI tutor for our class room using student notes, we collected all the data analyzed it, pre-processed and parsed it using schematic chunking
- Used RAG For search engine query and Trained using Llama index and stored all the nodes in Chroma db.

Healthcare Analytics Dashboard
- Designed and developed an interactive **Tableau dashboard** to analyze hospital patient data, enhancing decision-making and **operational efficiency**.
- Integrated **predictive analytics models** to forecast patient admissions with **85% accuracy**, helping hospital administrators optimize resource allocation.
- Conducted data-driven insights on **patient demographics, treatment effectiveness, and readmission rates**, leading to improved patient care strategies.