SIDDHARTH JAISWAL

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EDUCATION

- **Integrated Masters of Technology Majors in Computer Science and Engineering** **(2021-2026)**
  Minors in Computational and Data Science
  Cumulative GPA – 8.56, VIT Bhopal University, Bhopal, 466116, M.P
- **XIIth,** Percentage – 84.8 , W.H. Smith Memorial School, Varanasi, U.P **(2019-2020)**
- **Xth,** Percentage – 82, W.H. Smith Memorial School, Varanasi, U.P **(2017-2018)**

SKILLS

- **Programming Languages:** Python, C++, SQL
- **Tech Stack:** scikit-learn, Tensorflow, Hugging Face, Large language Model, Prompt Engineering, Retrieval Augmented Generation, vector database, Computer vision.
- **Tools:** Github, Tableau, Qlik, Jupyter, Google Collab, Excel

WORK EXPERIENCE

TheSmartBridge (Jul 2024- Aug 2024)
Business Analytics Internship

- Leveraged **Qlik Sense** for end-to-end data analysis on a real-world **supply chain dataset**, driving insights into inventory optimization, supplier performance, logistics efficiency, and demand forecasting.
- Designed and developed **interactive dashboards** to visualize key performance indicators (KPIs) such as sales trends, profit margins, delivery risks, and customer segmentation across global markets.
- Performed **data extraction, transformation, and visualization** (ETL) by cleaning and preparing large-scale datasets, ensuring data quality, and creating actionable visual insights to support data-driven decision-making.

PROJECTS

AgriDocQA- AI-Powered Document Question Answering System for Agriculture (Aug 2025 – Sep 2025)

- Developed a Retrieval-Augmented Generation (RAG) system to answer natural language questions about uploaded agricultural documents (PDF, TXT, DOCX).
- Utilized LangChain and FAISS to create a pipeline that ingests, chunks, and embeds documents, enabling efficient semantic search and information retrieval.
- Engineered a scalable solution using Hugging Face's all-MiniLM-L6-v2 for embeddings and an OpenRouter LLM for generating context-aware responses.
- Created an interactive user interface with Gradio to allow real-time document uploads and question-answering, providing a seamless user experience.

HandSign-AI: Real-Time Sign Language Letter Recognition (Dec 2024 – Jan 2025)

- Developed a real-time ASL letter recognition system using YOLOv8, enabling accurate detection of A–Z hand signs via live webcam input.
- Trained a custom model on a 26-class ASL dataset with robust preprocessing, achieving strong generalization across diverse hand gestures.
- Achieved high accuracy, with 91.3% precision, 90.1% recall, validated through detailed model evaluation.
- Optimized for speed, ensuring smooth performance with ~2.9 ms inference and ~4.9 ms post processing per frame for real-time applications.

CERTIFICATIONS

- Generative AI Certified Professional (Oracle) (Jul 2024)
- Data Analysis With Python (Coursera) (Jun 2023)
- Applied Machine Learning in Python (Coursera) (Jan 2023)

ACHIEVEMENTS

- Organized and led monthly meetings as a Core Member of the Data Science Club (Apr 2022 – Aug 2022), fostering awareness and active engagement in Data Science.
- Solved coding challenges daily for 100 days, and achieving a LeetCode global rank of 356,542 and VIT Bhopal rank of 615 on GeeksforGeeks.
- Ranked in the top 5% of 7,000 builders in Hacker House Goa, highlighting innovation and technical skills, and advanced to the final round competing with top developers.