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 – 8.57, 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:** numpy, pandas, matplotlib, scikit-learn, tensorflow, Machine Learning, openCV, YOLO, CNN, EDA.
- **Tools:** Github, Tableau, Qlik, Jupyter, Google Collab, Excel

WORK EXPERIENCE

TheSmartBridge (Jul 2024- Aug 2024)
Business Analytics Powered by Qlik Virtual 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

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.

DigitsClassifier: Handwritten Digit Recognition Using Deep Learning (Oct 2024 – Nov 2024)

- Built a **CNN** using TensorFlow to **classify handwritten digits (0–9)** from the MNIST dataset, achieving **98.83%** test accuracy.
- Designed a **multi-layer architecture** with convolution, pooling, dropout, and dense layers to improve accuracy and reduce overfitting.
- Developed an interactive app featuring **real-time prediction, drawing canvas, and image upload** for testing custom digit inputs.
- Validated model performance using training/validation plots and tested on external images with preprocessing and normalization.

CERTIFICATIONS

- Data Analysis With Python (Coursera) (Jun 2023)
- Database for SQL for Data Science (Coursera) (May 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, mastering arrays and linked lists, and achieving a LeetCode global rank of 413,542 and VIT Bhopal rank of 775 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.