SIDDHARTH JAISWAL

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EDUCATION

- **Integrated Masters of Technology in Computer Science and Engineering** (2021-2026)
  Specialisation 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, openCV, YOLO, Machine Learning, CNN, EDA, and Feature Engineering.
- **Tools:** Github, Tableau, Qlik, Jupyter, Google Collab, Excel

WORK EXPERIENCE

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

- Designed an interactive dashboard in Qlik Sense to streamline real-time data analysis, cutting manual reporting efforts by 30%.
- Consolidated data from 5+ sources, increasing data accuracy by 25% and enabling real-time monitoring of key performance metrics.
- Crafted 10+ tailored reports and visualizations, accelerating decision-making by 25% and boosting overall operational efficiency.

PROJECTS

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

- Constructed a robust YOLOv8-based sign language recognition system, achieving 95.57% accuracy in real-time A-Z gesture detection via webcam feeds.
- Refined model inference to 30 FPS on a standard GPU, ensuring seamless real-time communication for assistive applications.
- Expanded and augmented a dataset of 3,000+ labeled images, improving accuracy across varied lighting conditions and hand orientations.
- Integrated OpenCV and PyTorch for efficient image preprocessing, reducing detection latency by 20% and enhancing real-time gesture recognition.

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

- Engineered a Convolutional Neural Network model to classify handwritten digits from the MNIST dataset, achieving a 98.6% test accuracy through optimized architecture.
- Developed a real-time drawing interface using Streamlit draw able canvas, ensuring 15ms response time per input for instant digit recognition
- Strengthened model generalization by 10% using batch normalization and data augmentation, reducing overfitting on unseen data.
- Implemented custom image testing, allowing users to upload and preprocess handwritten digits, and ensuring accurate classification by the trained model.

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.