Siddhant Sharma

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EDUCATION

OP JINDAL UNIVERSITY   **Raigarh, Chhattisgarh, IN**
Bachelor of Technology   **Expected June 2026**
Computer Science and Engineering
Cumulative GPA: 7.5/10.0
Relevant Coursework: Data Analytics, Database Management System, Operating Systems, Data Structures and Algorithms, Discrete Mathematics, Object
          Oriented Programming, Data Mining and Data Warehousing

Vidya Bharati Chinmaya Vidyalaya   **Jamshedpur, Jharkhand,IN**
Relevant Coursework: Physics, Chemistry, Mathematics   **March 2021**
Academic Score: 80.8% (CBSE)

SKILLS

Programming Languages: Java , C++ , Python, MySQL
Technical Skills: Flask, Machine Learning, Deep Learning, Computer Vision, Natural Language Processing(NLP), AWS, Docker, FastAPI, Pytorch,
Tensorflow, Scikit-learn, Linux, Numpy, Pandas, Tableau, Big Data, Networking, Gen AI
Area Of Interest: Artificial Intelligence, Competitive Programming, Software Design/Development

WORK EXPERIENCE

PRODIGY INFOTECH
Data Science Intern   **May 2024 - June2024**
● Made 5 Beginner-Intermediate level Projects
● Developed Machine Learning Models using different Algorithms, Pandas, Numpy and evaluated the models accuracy

PROJECTS

Custom Video Broadcaster | GitHub
● Developed an AI-powered virtual camera system leveraging YOLOv8 segmentation models for real-time person isolation, enabling professional background effects without physical green screens for video conferencing platforms.
● Implemented a FastAPI-based streaming solution with virtual camera integration that supports multiple background modes (removal, blur, custom image) with adjustable parameters for professional video presentations.
● Engineered an efficient video processing pipeline utilizing GPU acceleration (CUDA/MPS) with optimized mask generation techniques, delivering broadcast-quality video enhancement for remote work and content creation.

Resume Parsing and Recommendation System | GitHub
● Developed a Resume Analysis System using Flask and NLP, leveraging TF-IDF encodings and a Random Forest Classifier with **85% accuracy** for automated resume categorization.
● Built a job recommendation engine to match candidates with suitable positions based on comprehensive resume analysis.
● Implemented information extraction features to automatically parse and retrieve names, contact details, and skills from resumes.

Covid-19 Detection System | GitHub
● Developed a web application using Flask and a custom CNN model with **95% accuracy** to classify chest X-ray images as COVID-19, pneumonia, or normal.
● Integrated **real-time** image analysis and user-friendly interface, enabling efficient diagnosis with confidence scores.
● Utilized TensorFlow, Keras, and OpenCV for robust backend and computer vision processing.

US Visa Approval Prediction (MLOPs) | GitHub
● Built an end-to-end MLOps pipeline using KNN as the best model, achieving **97.33% accuracy**, with AWS and Docker for scalable deployment.
● Developed web APIs using FastAPI and integrated Evidently AI for real-time data drift monitoring in production.
● Automated the entire workflow with CI/CD pipelines for seamless model training, evaluation, and deployment.

CERTIFICATIONS

● **Internet Of Things |** Fice
● **Machine Learning |** Fice
● **Generative AI |** Google
● **Cybersecurity Essentials |** Cisco
● **HackerRank Python Certification |** HackerRank