Siddharth Verma

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PROFESSIONAL SUMMARY

Enthusiastic Full Stack Developer with hands-on experience in Python development, specializing in Flask and SQLAlchemy for backend solutions. Proficient in building scalable web applications, AI-driven projects, and real-time systems using WebSockets and LiveKit. Experienced in database optimization, API development, and collaborative problem-solving. Adept at reading Java code and utilizing modern tools like Git, GitHub, and Docker to streamline development workflows.DynamicSkilful

EDUCATION

- **Gurukula Kangri Vishwavidyalaya** — Haridwar, Uttarakhand
  Bachelor of Technology - Computer Science & Engineering — *2021 - 2025*
  Courses: *Data Structures, Algorithms, Software Engineering, Web Technologies*

- **Uttarakhand Board of Technical Education** — Haridwar, Uttarakhand
  Diploma in Electrical Engineering — *2019 - 2021*

- **National Institute of Open Schooling (NIOS)** — National Level
  Senior Secondary (12th) - Physics, Chemistry, Mathematics — *2019 - 2020*

SKILLS SUMMARY

- **Languages**: Python, SQL, HTML, Java (Intermediate)
- **Libraries**: NumPy, Pandas, Seaborn, Matplotlib, SQLAlchemy, NLTK
- **Frameworks**: Flask, Node.js, React.js, Express.js, TensorFlow, PyTorch
- **Tools**: Git, GitHub, Postman, Docker, MATLAB, Google Colab, Cmder
- **Technologies**: AI Chatbots, LiveKit, Blockchain, Machine Learning, RESTful APIs
- **Databases**: MySQL, PostgreSQL, SQLite
- **Platforms**: VSCode, Google Colab, Jupyter Notebook
- **Hard Skills**: Data Visualization, API Development, Web Scraping
- **Soft Skills**: Critical Thinking, Team Collaboration, Agile Development, Decision Making, Effective Planning

EXPERIENCE

- **Patanjali Bharuwa Solutions** — On-Site
  Backend Developer — *2 Months*
  - **API Development**: Developed and optimized RESTful APIs using Flask & SQLAlchemy for improved backend performance
  - **Database Optimization**: Enhanced database query efficiency, reducing query execution time
  - **Microservices**: Debugged and optimized existing Python-based microservices, improving system scalability
  - **AI Solutions**: Collaborated on AI-driven automation solutions using LiveKit and WebSockets
  - **Version Control**: Utilized Git & GitHub for version control and codebase management
  - **API Testing**: Used Postman for comprehensive API testing and integration

PROJECTS

- **Crop Recommendation System (GitHub Link)**: Created a web-based machine learning program that uses HTML, Flask, and SQLAlchemy to forecast the best crops based on weather and soil. Designed an interactive user interface and integrated SQLite for effective data management. Achieved a 95% Crop prediction accuracy rate with enhanced machine learning algorithms, improving agricultural decision-making.

- **Self Diary AI (GitHub Link)**: A customized notebook based on artificial intelligence has been created to help with communication. It can recognize voice commands in Hindi and English. Natural language processing (NLP) has been used to comprehend and identify user inputs in order to enable automated event storage and recall, as well as to provide a personalized and intelligent diary experience.

- **Voice-Controlled Laptop Assistant (GitHub Link)**: Developed a global AI-powered voice assistant with recognition of speech and natural language processing (NLP), allowing for the generation of unique voice commands for automated tasks, application launch, and system control. By streamlining executing commands and response processing, 82% accuracy in voice recognition was attained, enabling soft hands-free relationship as well as successful laptop operation.

HONORS AND CERTIFICATION

- 3+ Certifications in Python Programming, Full-Stack Web Development, and Artificial Intelligence
- Comprehensive training through online learning platforms including Coursera and Udemy
- Advanced expertise demonstrated in Software Development, Machine Learning, and Web Technologies