# **SIDDHARTH VERMA**

# CONTACT

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# **EDUCATION**

04/2025

Bachelor of Technology -**Computer Science & Engineering** Gurukul Kangri Vishwavidyalaya Haridwar, Uttarakhand

Courses: Data Structures, Algorithms, Software Engineering, UI & Web **Technologies** 

09/2021

**Diploma - Electrical Engineering** 

Uttarakhand Board of Technical Education Haridwar, Uttarakhand

07/2020

Senior Secondary - Physics, Chemistry, Mathematics

National Institute of Open Schooling (NIOS)

# **Professional Summary**

Results-driven Backend Developer at Patanjali Bharuwa Solutions, skilled in optimizing RESTful APIs and enhancing database performance. Proficient in Python and SQL, I excel in collaborative environments, leveraging critical thinking to implement Al-driven solutions and improve system scalability. Committed to delivering high-quality code and effective planning strategies.

## **SKILLS**

- Python and Java
- Blockchain technology
- API development and RESTful APIs Live streaming with LiveKit
- SQL and MySQL
- Database management: SQLite

HTML and CSS

- Integrated development
- Data analysis with NumPy and **Pandas**
- environments: VSCode and Jupyter Notebook
- Data visualization with Matplotlib Critical thinking and decision
- · Version control with Git and GitHub making
- Containerization with Docker
- Team collaboration in Agile
- Web frameworks: Flask and Node.js environments
- Express.js for server-side development
- Effective planning strategies
- Machine learning and AI chatbots

# **EXPERIENCE**

# **Backend Developer** Patanjali Bhartiya Solutions

08/2024 - 09/2024

- API Development: Developed and optimized RESTful APIs using Flask & SQLAIchemy for improved backend performance
- Queries Optimization: Enhanced database query efficiency and reduced execution time
- Microservices: Debugged and optimized existing micro-based services, improving system scalability

# WEBSITES, PORTFOLIOS, PROFILES

vermasiddhartha04

- Al Solutions: Collaborated on Al-driven automation solutions using LiveKit and WebSockets
- · Version Control: Utilized Git & GitHub for version management

# **PROJECTS**

#### **Crop Recommendation System**

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 Al**

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**

Developed a global Al-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 CERTIFICATIONS

- 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

# SKILLS SUMMARY

#### **Programming & Tools:**

Python, SQL, HTML, Java (Intermediate), NumPy, Pandas, Seaborn, Matplotlib, SQLAlchemy, NLTK, Flask, Node.js, React.js, Express.js, TensorFlow, PyTorch, Git, GitHub, Postman, Docker, MATLAB, Google Colab, Render, ChatGPT, LiveKit, Blockchain

#### **Technologies:**

Machine Learning, REST APIs, MySQL, PostgreSQL, SQLite, VSCode, Google Colab, Jupyter Notebook, Data Visualization, API Development, Web Scraping

#### **Soft Skills:**

Critical Thinking, Team Collaboration, Agile Development, Decision Making, Effective Planning