

SHRUTI SINGH

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Education

BTech in Computer Science and Engineering with Specialization in AI & ML **CGPA = 8.78**
VIT Bhopal University

12th Grade (CBSE) **Percentage = 87.2%**
Kendriya Vidyalaya Sangathan

10th Grade (CBSE) **Percentage = 93%**
Kendriya Vidyalaya Sangathan

Experience

Technohacks Edutech **January 2025 – February 2025**
Machine Learning Intern *(Remote)*

- Implemented various machine learning algorithms (e.g., K-mean clustering, Decision Trees) on real-world datasets.
- Evaluated model performance using metrics such as accuracy, precision, recall, and confusion matrix.
- Gained hands-on experience with Python, scikit-learn, NumPy, Pandas, and Matplotlib.
- Improved understanding of the end-to-end machine learning workflow, from data handling to model deployment basics.

Projects

Discord Bot Development | *Python, discord.py, VS Code* **July 2025**

- Developed a feature-rich Discord bot in Python using discord.py.
- Implemented asynchronous command handling (async/await) for user-triggered responses and events
- Configured bot permissions via the Discord Developer Portal and tested features in real-time using VS Code.

Clinical Data Analysis for Healthcare Management | *LSTM, SVR, Random Forest, Pandas, NumPy* **October 2024**

- Developed a machine learning-based system to predict malaria outbreaks (*Plasmodium vivax* and *falciparum*) in Sehore district using historical clinical and environmental data.
- Integrated climate variables like rainfall, temperature, and seasonality to improve forecasting accuracy.
- Enabled proactive decision-making for healthcare resource allocation and vector control, demonstrating the potential of AI in public health surveillance.

Recipe Recommendation System | *Python, Flask, Pandas, Web Development* **August 2023**

- Developed a web-based recipe recommendation system that suggests recipes based on ingredients entered by the user.
- Used a Indian Food dataset from Kaggle containing a large collection of recipes with their corresponding ingredients.
- Worked collaboratively as a team, dividing tasks such as backend logic, dataset handling, UI design, and testing.

Technical Skills

Programming Languages: C, C++, Python, Java

Web Technologies: HTML, CSS, MySQL

Cloud & DevOps: Amazon Web Services (AWS)

Tools & Platforms: GitHub, Visual Studio Code, IntelliJ IDEA, Google Colab, Power BI

Machine Learning & Data Analysis: scikit-learn, pandas, NumPy, Matplotlib, Seaborn

Certifications

- GEN AI Using IBM Watsonx
- Oracle - Databases for Developers: Foundations
- Coursera - Applied Machine Learning in Python
- Mathworks - Simulink Onramp, Matlab Onramp

Additional Information

Languages: Hindi, English, Korean (beginner)