

# SHRUTI SINGH

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## Education

**BTech in Computer Science and Engineering with Specialization in AI & ML** **CGPA = 8.88**  
*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

**Chatbot to Analyze PDF Documents Using LLM | NLP, LangChain** **September 2025**

- Developed a chatbot capable of analyzing and summarizing PDF documents using Large Language Models (LLMs) and LangChain.
- Implemented PDF text extraction, context-based querying, and conversational interaction for real-time information retrieval.
- Link : <https://github.com/shrutisingh004/Chatbot-to-Analyze-PDF-Documents-Using-LLM.git>

**Virtual Mouse | Python, Computer Vision** **June 2025**

- Implemented a gesture-controlled virtual mouse using OpenCV, MediaPipe, autopsy, and NumPy.
- Leveraged webcam-based hand tracking to enable users to perform mouse actions : clicking, scrolling, dragging - using intuitive gesture controls, demonstrating proficiency in real-time image processing and human-computer interaction.
- Link : <https://github.com/shrutisingh004/Virtual-Mouse/tree/main>

**Text Completion Generator | NLP, Python** **April 2025**

- Built a Natural Language Processing model to generate coherent text completions based on user input. Implemented using Python with machine learning libraries, showcasing sequence modeling and text prediction.
- Designed for real-time interaction, with emphasis on context awareness and fluency in generated sentences.
- Link : <https://github.com/shrutisingh004/Text-Completion-Generator>

## Technical Skills

**Programming Languages:** C, C++, Python, Java, HTML, CSS, JavaScript, MySQL

**Tools & Platforms:** GitHub, Visual Studio Code, IntelliJ IDEA, Google Colab, Power BI, Amazon Web Services (AWS), Oracle Cloud

**Techniques:** Machine Learning, Deep Learning, Generative AI, NLP, Data Analysis, Data Visualization, Web Development

## Certifications

- Google Introduction to Generative AI ([Link](#))
- Oracle Cloud Infrastructure Certified AI Foundations Associate ([Link](#))
- Oracle Cloud Infrastructure Certified Generative AI Professional ([Link](#))
- GEN AI Using IBM Watsonx ([Link](#))
- Applied Machine Learning in Python ([Link](#))
- IBM Blockchain Fundamentals ([Link](#)), IBM Blockchain Developer ([Link](#))