

# SHRUTI SINGH

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## Education

### BTech in Computer Science and Engineering with Specialization in AI & ML

CGPA = 8.87

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

### Email Productivity Agent | Python, Flask, Streamlit, OpenAI API, LLM

November 2025

- Developed a full-stack AI email management system with prompt-driven architecture for automated categorization and reply generation
- Built Flask backend with RESTful APIs and Streamlit frontend with real-time processing and chat interface
- Integrated OpenAI GPT for intelligent email analysis with safety-focused draft-only generation
- Link : <https://github.com/shrutisingh004/email-productivity-agent>

### 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>

## Technical Skills

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

**Frameworks & Libraries:** Flask, Streamlit, scikit-learn, TensorFlow, PyTorch, OpenCV, LangChain, OpenAI API

**Tools & Platforms:** Git, GitHub, Visual Studio Code, Google Colab, AWS, Oracle Cloud, Docker, REST APIs

**Domains:** Machine Learning, Deep Learning, Generative AI, Natural Language Processing, Data Visualization, Web Development, Prompt Engineering

## 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](#))