

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](#))