

Mridhav Khajuria

B.Tech in Computer Science and Engineering — AI/ML

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OBJECTIVE

Motivated B.Tech Computer Science student with a focus on AI/ML and experience in developing AI-driven projects. Seeking to leverage analytical and problem-solving skills to contribute to innovative solutions in a dynamic environment.

EDUCATION

- **B.Tech in Computer Science and Engineering**, VIT Bhopal University 2026
GPA: 8.06
- **High School**, Army Public School, Dhaula Kuan, Delhi 2022
Achieved 86.6% in CBSE Board Examination

INTERNSHIPS

- **Web Development Intern** — Army Training Command (ARTRAC)
Duration: [2 Months]
 - **Web Development Exposure:** Focused on front-end development using HTML, CSS, and JavaScript, building interactive and user-friendly web pages while improving overall design and functionality.
 - **Back-End Familiarization:** Gained foundational experience in back-end development, working with PHP to manage data flow and learning to operate within server environments using XAMPP.
 - **Database Management:** Learned key concepts of database systems, including setting up and interacting with MySQL databases for efficient data storage and retrieval.
- **Unpaid Internship at CyberPeace Foundation**
Duration: 1 Month
 - **Cybersecurity Fundamentals:** Acquired foundational knowledge in cybersecurity concepts, focusing on techniques for identifying and mitigating threats in digital environments.
 - **Virtual Environments:** Worked extensively with virtual operating systems like Ubuntu, gaining hands-on experience in configuring and managing secure environments for testing and development purposes.
 - **Malware Detection and URL Analysis:** Developed expertise in evaluating URLs and websites to classify them as malware or benign using various online tools and analysis techniques.
 - **Networking and VLAN Configuration:** Contributed to the setup and configuration of VLANs (Virtual Local Area Networks) to enhance network segmentation and security on Smartrack data servers.
 - **Data Server Management:** Gained practical experience in managing and securing data servers, ensuring efficient data flow and robust security practices.

PROJECTS

- **Malware Link & Website Scanner**

Developed a Python-based tool to detect potentially harmful URLs and scan websites for malware using web crawling and scraping techniques.

Technologies: Python, BeautifulSoup, Requests, URL parsing libraries

- Implemented link validation and domain reputation checking.
- Used web scraping to fetch website content and check for malicious indicators.
- Designed a CLI interface for fast scanning, with plans for GUI or browser extension integration.

- **AI Chatbot Development**

Built a basic AI chatbot using Python, HTML, CSS, JavaScript, and Flask. Integrated NLP libraries to provide context-aware responses through a clean and interactive interface.

Technologies: Python, Flask, HTML, CSS, JavaScript, NLP Libraries

- **Car Rental Credit System**

Created a web-based car rental platform with integrated credit management and secure transaction handling.

Technologies: Python, Flask, HTML, CSS, JavaScript

- Developed backend logic to manage customer records and credit flow securely.
- Designed an intuitive front-end for seamless user interaction.

- **Olympic Medal Prediction Model**

Developed a machine learning model to predict Olympic medal counts using historical data.

Technologies: Python, Jupyter Notebook, Scikit-learn, Pandas

- Performed data preprocessing and feature engineering.
- Built and evaluated regression models to predict country-wise medal counts.

RESEARCH PAPERS

- **Face Mask Detection Using CNN:** Developed a deep learning model leveraging Convolutional Neural Networks (CNN) to detect face masks in real-time, contributing to public health and safety applications.
- **Crop Classification Model Using Artificial Neural Networks:** Implemented Deep Learning, Artificial Neural Networks models to analyze agricultural data and classify crop, aiding in better image classification.

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, HTML, CSS, JavaScript, SQL, PHP
- **Data Science Machine Learning:** Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, Matplotlib
- **Web Development:** Flask, Django, Bootstrap, REST APIs
- **Databases:** MySQL, MongoDB
- **Cybersecurity:** Network Security, Malware Analysis
- **Soft Skills:** Teamwork, Public Speaking, Analytical Thinking, Leadership

ACHIEVEMENTS AND INTERESTS

- Served as a Co-leader in Model United Nations (MUN), showcasing leadership, public speaking, and diplomatic negotiation skills.
- Active participant in sports such as golf, basketball, swimming, squash, and horse riding.
- Interested in AI/ML research and exploring new advancements in technology.