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) esume 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, focus- ing 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.