

ADITI YADAV

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EXPERIENCE

CISCO AICTE Virtual Internship Program Jul 2023 – Aug 2023

Network Engineer Intern

- Enhanced network performance by analyzing the college's network topology and **identifying security gaps**, resulting in reduction in potential vulnerabilities
- Conducted attack surface mapping** and proposed security enhancements to strengthen the system against potential threats.
- Implemented access control lists, firewall configurations, and other security protocols to improve data protection and operational stability.

HelloAR Technologies Pvt. Ltd Jun 2023 – Jul 2023

Software Engineer Intern

- Implemented advanced **image processing and object detection techniques** using Python and OpenCV to accurately identify key elements in visual data, improving recognition accuracy by 20%.
- Managed datasets of over 1 million entries and utilized visualization tools to derive actionable insights, accelerating decision-making processes.
- Developed scripts to **extract structured information from unprocessed image data**, preparing it for seamless integration.

PROJECTS

Enterprise Network Simulation 2025

- Designed and implemented a scalable enterprise network integrating WAN (PPP with CHAP), eBGP, dynamic NAT, VLANs, inter-VLAN routing, EIGRP routing, DHCP services, SSH access, and port security.
- Strengthened network security by configuring ACLs for controlled HTTP access, TCP sessions, and ping responses, ensuring secure and efficient WAN, LAN, and Internet connectivity.

Nutrition Advisor 2024

- Developed an interactive web application that generates **personalized diet recommendations** based on user inputs such as age, gender, weight, height, activity level, dietary preferences, and allergies.
- Calculated BMI and daily calorie requirements, and determined macronutrient distribution to support user-defined goals like weight maintenance or loss.
- Implemented a dynamic food recommendation engine that suggests meal options (breakfast, lunch, dinner) with detailed nutritional breakdown and recipe instructions.

Project LEAF 2023

- Built a Linux-based command-line automation framework that **seamlessly integrated 18 popular red-teaming tools** to streamline and standardize penetration testing workflows.
- Automated tasks such as reconnaissance, vulnerability scanning, exploitation and reporting, reducing manual intervention and cutting cybersecurity **assessment time by 50%**.

Liver Disease Detection 2023

- Built a machine learning model with **85% accuracy to predict liver disease** using clinical input features such as age, bilirubin levels, enzyme ratios, and other medical parameters.
- Developed a **simple, user-friendly web interface** using Streamlit where users can input their medical test results and receive real-time predictions indicating the likelihood of liver disease.

POSITIONS OF RESPONSIBILITY

Creative Team Member at CSI-KJSSE

Promoted events on social media to boost engagement, collaborated on content creation and campaigns, and supported initiatives to increase student participation and enhance campus culture.

SUMMARY

My engineering background and keen technical interests have fostered within me a strong desire to apply technology to interesting solutions for real-world problems. I excel in environments that require the application of technical expertise and creative problem-solving, involving continuous learning and adaptation to new developments and trends in the field. I am detail-oriented and quick to learn; I welcome anything that stretches my limits. I enjoy working together in diverse teams to realize ideas that can have an impact.

EDUCATION

K. J. Somaiya School of Engineering

B. Tech in Electronics and Telecommunication

GPA: 8.65 (Till Sem 7)

2021-25

Kendriya Vidyalaya No. 2

XIIth standard with 77%

2020

Kendriya Vidyalaya No. 2

Xth standard with 81.6%

2018

SKILLS

Programming Languages

Python

Tools/Technologies

Arduino, MATLAB, Microsoft Power BI, Scikit-learn, NumPy, Pandas, Matplotlib, MySQL, Cisco Packet Tracer

Networking

IP/Subnetting, Routing & Switching, VLANs, Firewalls, VPNs, OSI/TCP-IP models, LAN/WAN protocols, Network Security Basics

CERTIFICATIONS

CCNA v7

CISCO Networking Academy

IoT Fundamentals

CISCO Networking Academy

Programming Essentials in Python

CISCO Networking Academy