

# Vivansh Prabhakar Yadav

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[github.com/Vivansh-01](https://github.com/Vivansh-01)



## Education

**Gyan Ganga Institute of Technology and Science, Jabalpur** 2020-2024  
*B.Tech in Computer Science and Engineering - IOT and Cybersecurity including Blockchain Technology* (CGPA: 7.92)

- **Relevant Coursework:** Data Structures and Algorithms (JAVA), Computer Networks, CyberSecurity, DBMS, Cloud

**CDAC, Thiruvananthapuram** Feb 2025-Present

*Post Graduate - Diploma in CyberSecurity and Forensics*

- **Relevant Coursework:** Linux and Windows Administration, Network Essentials, Ethical Hacking, Penetration Testing, Cyber Forensics, Secure Programming

## Experience

**Cisco Virtual Internship 2023** May 2023 – Aug 2023

*Cloud Security Intern*

- Implement IAM and RBAC for Cloud based DB Service Platform, leading to an estimated 30-35% enhancement in customers security and privacy.
- Redesigned the user interface with a sleek layout, elevating user satisfaction by 35-40% and setting a new standard
- Achieved a 15-20% improvement in project performance by implementing bug fixes and feature enhancements.
- Completed the theoretical exam, completed more than 10 Lab activities, 15 Packet Tracer activities, then finally a project in Packet Tracer

## Projects

**DB Hosting Service | AWS, Cisco Packet Tracer, Firebase, Firewall, Server Administration, Security** Self Project | Aug 2023

- Identified the Best Suited Cloud Service Model: Analyze the requirement and suggest the best possible model to maximize the cloud service performance by 70-80%
- Implemented IAM for Cloud Service: Used IAM and RBAC to provide desired access to users based on their role, which in turn provide 99% decrease in identity theft and phishing of user data
- Secure Access Control: To ensure that details / data are not accessible through the public Internet and can only be accessed through the College VPN and authorized users, leading to increased reliability.

**Smart Irrigation System Using IoT | Python, Blynk, Firebase, Wi-Fi (Communication), Arduino IDE Team Project | May 2024**

- Designed to optimize water usage in agricultural fields by integrating sensors with a micro-controller NodeMCU(ESP8266). Sensor data was processed in real time and transmitted to cloud for monitoring and control.
- An automated water pump was triggered when soil moisture dropped below a predefined threshold(370), ensuring timely irrigation while conserving water.
- It features a mobile interface for remote monitoring and manual override, and also mobile notification alerts, driving a 30% increase in engagement through simplified design.
- Designed for 30% low-power consumption using basic components, the solution is ideal for deployment in rural and resource-constrained environments.

**Network Infrastructure, Design and Simulation using Cisco Packet Tracer | Cisco Packet Tracer** Self Project | Feb 2025

- Designed and Simulated a scalable campus network infrastructure using Cisco Packet Tracer.
- Configured routers, switches, and VLANs to segment departments, implemented static and dynamic routing protocols (RIP/EIGRP/OSPF), and enabled DHCP and DNS services for IP management and name resolution.
- Emphasized on best practices in IP addressing, subnetting, optimized performance, redundancy, and security configurations.

## Technical Skills

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**Languages:** Java, C, Python, SQL

**Technologies:** Java, Linux and Windows Administration, Networking, MongoDB, MySQL, Firebase, Spring Boot, TensorFlow, AWS

**Tools:** Wireshark, BurpSuite, NMAP, SIEM, GIT, Caido, VSCode, Github, Splunk, Nikto, OpenVAS, Cisco Packet Tracer, Shodan

**Concepts:** Data Structures and Algorithm, Operating System, System Design, Database Management, Object-Oriented Programming(OOPS), Information Security, Computer Networks, CCNA, Cloud, IOT, SDLC, Agile Methodology, Ethical Hacking, Penetration Testing

## Achievements

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- Certificates and Training : Cisco Virtual Internship'23 - Cloud Security, NDG Linux Essentials, Cisco Networking Essentials, Oracle Java Foundations, MySQL 8.4: Essentials, PCAP (Programming Essentials in Python), CCNA
- Alibaba Cloud Certified Developer
- ISO/IEC 27001 Information Security Associate
- Hacker Daddy CTF Excellence Badge

## Social Engagements

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**Club Member:** At Technical Team - INDIGO, GGITS

**Organizer:** Seminar for "Security Threat in IOT Communication" GGITS (200+ attendees) - Leadership

**Volunteer:** Gyanotsav'23 - The New Year Fest of GGITS - Teamwork

**Interests:** Football, Chess, CTF's, Cooking