

SHALINI SINGH

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EDUCATION

M.Tech in Information Security

ABV- Indian Institute of Information Technology and Management, Gwalior

📅 Sep 2021- June 2023

📍 Gwalior, India

CGPA: 8.32/10

B.Tech in Computer Science Engineering

Dr.A.P.J.ABDUL KALAM TECHNICAL UNIVERSITY

📅 Sep 2016 - Sep 2020

📍 Lucknow, India

CGPA: 7.52/10

PROJECTS

Lightweight Handover authentication protocol for Internet of Drones [Nov 2022-May 2023][M.Tech Thesis Project]

- UAV continuously migrate from one zone to another zone thus there is a need of handover authentication so that UAV will not have to reauthenticate every time it enters a new zone, while ensuring a seamless communication when the service location is changed. For this I have proposed a Mean Square root method and consortium blockchain-based secure and lightweight authentication scheme for the IoT system.


Sign Language Recognition using Deep Learning [Aug 2019-May 2020]

- This python project is basically about recognizing sign languages in real time using CNN. In this project we used efficient methods to convert sign language into text. Inputs were taken by webcam and recognized by neural network system and gave text and reply..

Edge2Guard: Botnet Attacks Detecting Offline Models for Resource-Constrained IoT Devices.[Feb 2022-March 2022]

- To safeguard tiny IoT devices from cyberattacks, a resource-friendly standalone attack detection models to instantly detect IoT attacks without depending on networks or any external protection mechanisms. During evaluation, our top-performing E2G models detected and classified ten types of Mirai and Bashlite malware

PUBLICATION

S. Kumar, S. Singh and B. Prasad, "Securing IoT with Blockchain: Detecting Malicious Nodes with TLS Certificates" , 2023 International Conference on Computer, Electronics & Electrical Engineering & their Applications (IC2E3), Srinagar Garhwal, India, 2023, pp. 1-4.

CERTIFICATIONS

Purple, Online

Front-end Development

📅 June 2020 - July 2020

📍 Online

Spoken Tutorial Project Funded by IIT BOMBAY

Python Training

📅 August 2019- Oct 2019

📍 Online

e.Soft Connect, Lucknow

C++ Training

📅 March 2018

📍 Lucknow

SKILLS

- Domain Knowledge:

Machine Learning

Front-end development

Blockchain

- Programming Languages & Tools:

Java

C++

C

Javascript

Python

SQL

Git

Github

Linux

- Tech Stack:

HTML5

CSS

ReactJS

MongoDB

COURSE WORK

- Data Structure and Algorithm
- Database Management System
- Object Oriented Programming
- Machine Learning
- Operating System

EXTRA-CURRICULAR

- Among top 15 percentile students in my batch in Graduation.
- First Prize in Debate competition in College Fest Trisha 2018.
- Was a Event coordinator at College Fest Trisha 2019.
- Gate 2020 and 2021 Qualified with a percentile of 98% and 98.88% respectively.