

# Aadhaar Koul

<https://aadhaarkoul2002.wixsite.com/my-site2>

<https://github.com/Aadhaar-debug/>

<https://www.linkedin.com/in/aadhaar-koul-7271b6204/>

Email : 2020a1r040@mietjammu.in

Mobile : +916005846156

## EDUCATION

---

### Model Institute of Engineering and Technology, Jammu

Jammu, India

*Bachelor of Computer Science and Engineering (3<sup>rd</sup> year);*

2020 - 2024

### Delhi Public School, Jammu

Jammu, India

*Intermediate of Science; CGPA 9.1/10*

2018

### Coventry Scholars, Jammu

Jammu, India

*Matriculation; Percentage; 78%*

2020

## EXPERIENCE

---

### Google Developers Students clubs (Android Facilitator)

*Member · MIET, Jammu*

*Aug 2022 - Present*

- : Hosted 4 events for the Android compose camp organised by Google Developer Students Club to an audience of 120+ students per event.
- : Made 4 beginner friendly apps in Kotlin to get the students started with the android Development.

### Smart India Hackathon - 2022 (Participant)

*Participant / Team Leader , Chandigarh University*

*Aug 2022 - Present*

- : Developed a full fledged web platform and a java based android application for AICTE in under 40 hours.
- : Networked with industry professionals and corporate leads.

### GDG Google Developer Groups Jammu (Attendee)

*MIET Representative · JKEDI , Jammu*

*Aug 2022 - Present*

- : Stood 1<sup>st</sup> in flutter app idea submissions hackathon
- : Attended 6 events ranging from start up development , flutter , blockchain , firebase , kotlin , and GCP.

### IIT Jammu Cyber Forensics and Intrusion Workshop (Attendee)

*Attendee , Jammu*

*Mar 2023 -*

*Mar 2023*

- : Got accepted for a mentorship program with cyberspace industry professionals and got a chance to network with ex RAW and DRDO officials.

## INTERNSHIPS

---

### MIET Internship (Project Intern)

*Director's Internship · MIET, Jammu*

*Sept 2020 - Jan 2021*

- : Collaborated with top college faculty including the college director on a Security based Framework Project.
- : Filed a patent on the idea and delivered the very first functional version of the framework.
- : Writing research papers based on federated learning models , new and real time hacking methods for windows and Linux privilege escalation.

### LINODE Cloud IT Support Engineer (Intern)

*Paid Internship received after CTF Competition · Linode , Philadelphia , US*

*Sept 2020 - Jan 2021*

- : Worked with Cloud division head -(Jamie Park) under the mentorship of Britton Duer.
- : Hosted and served multiple server instances for 5 startup companies and an NGO.

### **Klient Assist WEB Developer (Intern)**

Intern Web Developer : Jammu

*Jul 2022 - Present*

- : Made the organization website from scratch that can be viewed at (<https://klientassist.com/>).
- \*: Recruited the best people for the organization that fit the best job roles.

## PATENTS

---

- : **"SYSTEM AND METHOD FOR PROVIDING ARTIFICIAL INTELLIGENCE (AI)-BASED CYBER-HYGIENE FRAMEWORK"**: Ankur Gupta , Aadhaar Koul. File Number:20211069581 - Issued Dec 2 , 2022.

## RESEARCH PAPERS

---

- : **"AUTOMATING RETRO GAMES USING REINFORCEMENT LEARNING AND DEEP-Q-LEARNING MODELS"**: Aadhaar Koul , Arjun Charak - 2022 (Unpublished)
- : **"NETWORK TRAFFIC AND LOAD ANALYSIS ON A LAN USING PROVIDED SET OF PROTOCOLS ON CISCO PACKET TRACER "**: Aadhaar Koul , Arjun Charak , Shobit Kitchloo , Shafin Showkat , Anil Kumar , Siddharth Bhawani - 2022 (Unpublished)
- : **"INTRUSION DETECTION FRAMEWORK IN HOME AUTOMATION SYSTEMS USING COMPUTER VISION "**: Aadhaar Koul , Arjun Charak , Baseer Fatima , Novneet Singh - 2023 (Persuing)
- : **"SYSTEM AND METHOD FOR PROVIDING ARTIFICIAL INTELLIGENCE (AI)-BASED CYBER-HYGIENE FRAMEWORK "**: Ankur Gupta , Aadhaar Koul - 2023 (Persuing)

## PROJECTS

---

- : **Security based Cyber Hygiene Tool (Web Development + Artificial Intelligence Project)**: It is an intelligent security based Chrome Extension with a recommendation , malware block advisory message federated learning security framework functionality that learns from certain scenarios and protect the other distributions of the framework from the captured scenario using a federated learning model.
- : **Security oriented Web Browser (Software Engineering Project) :** It is a lightweight , userfriendly Web Browser packaged for the Windows PC platform built in C# language on Microsoft's DotNet framework IDE with a password saving , Javascript support , ad blocker , and a functionality. Furthermore on the project can be found in the github repository.
- : **Intrusion Detection and parameter security based IOT Solution (Software Engineering + IOT + cloud Project) :** It is a cloud based coordinated hardware solution that uses certain sensors to ensure premises parameter security , a notification system , computer vision technology and Neural Networks to capture all possibilities of Intrusion , detect them and execute protocols accordingly.
- : **Plant Disease classification and Remedy recommendation model(Machine LearningProject) :** It is a python based framework project that when pointed towards a plant classifies it into different plant categories and recommends a remedy or a possible solution for the disease using Machine Learning.
- : **Application for AICTE(Android Development Project)**: It is an Institute oriented Android Application made in the java and XML language on the Android Studio IDE. The application was a part of the SIH(Smart India Hackathon 2022) and was made for AICTE(All India Council For Technical Education) by a team of 6 members. : ( Aadhaar Koul , Arjun Charak , Diksha Bhat , Dhamini Gupta , Shrutam Chalotra , Manthan Kalia.)
- : **Cybersecurity Training App(Android Development Project [Unpublished])**: It is a lightweight , userfriendly , beginner oriented cybersecurity training application made in java and XML that includes reading material , code snippets , mini projects and a ranking functionality. The app ranks the user even higher while they progress more

through the app course. Moreover it familiarises the user with languages like Arduino , shell scripting , ducky scripting and python for cybersecurity.

## CERTIFICATIONS

---

- : **NDE(Network Defence Essentials)**: EC-Council
- : **DFE(Digital Forensics Essentials)**: EC-Council
- : **EFE(Ethical Hacking Essentials)**: EC-Council
- : **EJPT(Elearn Junior Penetration tester)**: Elearn Security
- : **CCNA(Cisco Certified Network Associate)**: Comptia A+
- : **A+ : Comptia A+**
- : **Cyber Security Fundamentals**: IBM
- : **Cyber Security Specialization** : Coursera and others..(refer to [LinkedIn](#))

## TECHNICAL AND PROGRAMMING SKILLS

---

**Languages:** C, C++ , C# , Python , Micro Python , Java , Kotlin , Flutter , Javascript , HTML , CSS , PHP , SQL , BASH , Arduino , CMD / Powershell / Terminal scripting.

**Technologies:** Android Studio , Java Play , Microsoft Visual Studio , Linux , Kali , Raspberry Pi , Apache2 , Nginx , Networking tools , Penetration Testing Tools , OSINT , Microsoft Tools, Canva , Figma , Wireshark. , Blynk Cloud

## CO-CARRICULAR

---

- : **2 Day workshop on cyber security:** Head of the Organizing / Technical Team. departments and semesters participated and showed an immense interest. Students got to perform a hands on simulation to the DDOS attacks ,Google Dorking techniques , Dashboard attacks and cache hijacking .
- : **Blood Donation Camp:** A blood donation camp was organized at Model Institute of Engineering and Technology (MIET), Kot Bhalwal for Thalassaemia children in collaboration with JK Thalassaemia Welfare Society (JKTWS).

## OTHER ACHIEVEMENTS

---

- : SIH(Smart India Hackathon) 2022 Grand Finalist
- : Trend Micro CTF(Capture The Flag) - 2021: 2<sup>nd</sup> Runner up out of 12000 Participants.

## AREA OF INTERESTS

---

- : **Cyber Security Frameworks**
- : **Web apps and systems**
- : Computer Networking **Networking**
- : **Wireless Systems**
- : **Product Design and Technology**
- : **Application Development and sustainable solutions for small and large scale organizations.**
- : **Practical hand in microcontroller programming especially Arduino (Micro , Pro and Ultra) , Raspberry Pi,ESP(32CAM , 8266)**
- : **Android and PC Game and Augumented Reality Development using Blender assets on Unity and GODOT**

