

# Anushka Rawat

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GitHub : <https://github.com/anushkarawat23>

## ACADEMIC DETAILS

Year	Degree/Exam	Institute	GPA/Marks(%)
Oct, 2021 - Present	B.Tech in Computer Science	Graphic Era University, Dehradun	8.83/10
2020	C.B.S.E	Ahlcon Public School Delhi	85.6 %
2018	C.B.S.E	Ahlcon Public School Delhi	97.2 %

## EXPERIENCE

- **SDE Intern, Technology Business Incubator (TBI-GEU)** *April 2024 - June 2024*
  - Developed an Automated Assignment Management system using Python and Flask, allowing for bulk upload, tracking, and evaluating student assignments, reducing manual effort by 40%.
  - Implemented a feedback system using web development technologies (HTML, CSS, JavaScript) and openAI API that allowed students to receive real-time performance insights and suggestions for improvement based on their submissions.
  - Optimized backend processes by integrating SQL databases for efficient student data storage, leading to a 25% improvement in data retrieval time.

## PROJECTS

- **Detection and Classification of IoT Malware from MQTT Dataset:** *(Group Project made by a team of 3)*
  - Published the research paper at ICCSAI-2023 technically sponsored by IEEE: <https://ieeexplore.ieee.org/document/10420916>
  - Developed a Machine Learning model to detect malware in IoT devices with the help of the MQTT dataset.
  - 5 ML algorithms - Random Forest, CNN, Gradient Boost, Light GBM, and Naive Bayes are applied and compared based on 3 metrics - accuracy, F1 score, and confusion matrix.
  - The model attained a maximum accuracy of 90.5% and also classified the malicious traffic into 6 categories - Brute-force, DoS, Flood, Legitimate, Malformed, and SlowITe.
- **Web Application for EXPA NGO:** *(a collaborative project for the Code for Good Hackathon, 2024)*
  - Contributed to the integration of an AI-powered assessment system for evaluating the trainees.
  - Developed a Speech-to-Text model that converts trainees' spoken responses into text for assessments in both Hindi and English with over 90% accuracy.
  - Trained the bilingual LLM (Llama) to evaluate assessments and generate real-time, personalized feedback on trainee performance.
  - Designed an admin dashboard using Streamlit for visualizing and analyzing over 100 trainees' overall performance.
- **Cyber Crime Detection :**
  - Developed a Machine Learning Model on Android Malware detection using the Neural Network technique.
  - The aim of the project is to enhance security by detecting malicious software in Android mobile applications.
  - The detection system effectively detects the malware samples from a set containing 5560 malware and 9476 benign samples with 98% accuracy.
- **Android Quiz Application :**
  - Developed a Quiz Application in Android Studio using Kotlin as the programming language.
  - Connected the app to Firebase to store the data in real time.

## TECHNICAL SKILLS

- **Languages:** C, C++, Python, Kotlin, HTML, CSS, JavaScript
- **Database :** MySQL, MongoDB, Firebase
- **Technologies:** Git/GitHub, Jupyter Notebook, NodeJS, ExpressJS
- **Others:** Data Structures & Algorithms, OOPS, Computer Networks, Machine Learning, DBMS, Operating Systems
- **Soft Skills:** Public Speaking, Teamwork, Observant, Quick-Learner

## POSITIONS OF RESPONSIBILITY

- **Vice-Chair, GEU ACM-W Student Chapter** (September 2022-December 2023):
  - Led the GEU ACM-W team in collaboration with the chapter Chair, successfully organizing and managing over 20 technical events and workshops, including coding competitions, development workshops, and seminars.
- **Co-Organizer, TEDxGraphicEraUniversityWomen** (September 2022-November 2022): Successfully organized a TEDx event at the University with a team of 60 people.

## ACHIEVEMENTS

- **Best Researcher Award, G20 Symposium on Digital Agriculture** (Aug 2023): for a research presentation titled "Guarding Agriculture's IoT Realm: Detecting Malware and Strengthening Cybersecurity", outperforming over 100 competitors.
- **Amazon ML Summer School 2024** (July 2024): selected for the Amazon ML Summer School 2024 where the fundamental concepts of Machine Learning were taught.