

# Saheel Yadav

Bachelor of Technology

DRK Institute Of Science And Technology

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## OVERVIEW

Motivated and solution-focused Computer Science student with experience in AI-based security systems, data structures, and NLP-driven applications. Passionate about building impactful tech solutions at scale.

Completed Deloitte and Walmart virtual internships, gaining real-world experience in advisory, software architecture, and data systems across departments.

## EDUCATION

• **Bachelor of Technology in Computer Science and Engineering** 2022-26  
*DRK Institute Of Science And Technology, Hyderabad* CGPA: 7.7

## PERSONAL PROJECTS

• **Document Classification And Query Routing System** Jan 2025

*A text classification engine using Wikipedia data*

- Built TF-IDF + n-gram based model for routing user queries
- Implemented cosine similarity for topic matching
- Technology Used: Python, NLP, Wikipedia API

• **AI-Based Intrusion Detection System (NIDS)** Mar 2025

*A machine learning-driven system for detecting network intrusions*

- Used NSL-KDD dataset for training multiclass and binary classifiers
- Built models with Random Forest, SVM, and Deep Neural Networks
- Technology Used: Python, Scikit-learn, TensorFlow, Pandas, Linux

• **Trie-Based Malware Detection System** April 2025

*A Trie-based scalable malware detection system*

- Designed and implemented a Trie (prefix tree) to enable fast lookup of known malware patterns.
- Optimized for time complexity  $O(L)$  where  $L$  is the length of the pattern
- echnology Used: Python, Trie Data Structure, Algorithm Optimization

## TECHNICAL SKILLS AND INTERESTS

**Languages:** Python , C, Java, JavaScript

**Libraries And Frame Works :** Python Libraries (Pandas, Scikit-learn, TensorFlow) , React.js ,Express.js

**Web Dev Tools:** Nodejs, VScode, Git, Github

**Cloud/Databases:** MongoDB, mySql

**Relevant Coursework:** Data Structures Algorithms ,Operating Systems ,Computer Networks ,Object-Oriented Programming , Database Management Systems ,Software Engineering

**Areas of Interest:** Web Architecture Design , Cloud Systems , Intelligent Interfaces , Real-time Communication Systems ,AI-Enhanced Applications,Agentic AI, Generative AI

**Soft Skills:** Analytical Thinking ,Problem Solving, Self-Learning , Team Collaboration ,Adaptability , Presentation Skills

## CERTIFICATES

• **Walmart USA Advanced Software Engineering** Virtual Experience Program – Forage July 2025

- Covered Advanced Data Structures, UML Design, Database Design, and Data Munging

• **Deloitte Technology STEM** Virtual Experience Program – Forage July 2025

- Simulated client tech advisory scenarios and created AI and cloud-based implementation plans

• **Web Development Certification – IIT Hyderabad E-Cell** with Skill Dunia Jan 2024

- Learned full-stack development using HTML, JS, Bootstrap, and REST APIs

## EXTRA CIRCULAR ACTIVITIES

**National Hackathon – Zignasa 24-Hour Hackathon** Built a collaborative tech solution under competitive, real-time constraints Using MERN Stack . Dec 2023

**Virtual Intern – Deloitte STEM Connect (Technology Domain)** Completed tasks focused on tech problem-solving, innovation, and stakeholder collaboration. Jan 2024

**Virtual Intern – Walmart Advanced Software Engineering Program** Built projects involving data structures, system design, and database modeling. July 2025