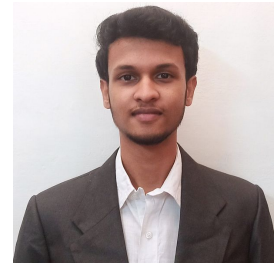


# Nitin Shriram S

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🐙 [Github - NitinShriram](#) 🌐 [Portfolio Website - NitinShriram](#)



## Profile

A highly motivated B.Tech Computer Science Engineering (with Artificial Intelligence and Data Science) student at SASTRA Deemed University with a passion for technology and a good foundation in programming, seeking opportunities to apply my skills and knowledge in real-world projects. Possess excellent communication skills and have an eye for detail. I thrive in a collaborative team environment. Flexible to work in any environment as required.

## Education

**B.Tech Computer Science Engineering with Artificial Intelligence and Data Science,**  
SASTRA University ✉

2021 – Present

CGPA - 9.3723

**Class XII, Shaanthi Schools**

2021

Percentage - 96.5%

**Class X, Shaanthi Schools**

2019

Percentage - 95%

## Professional Programs

**PwC Launchpad program (2023-24)**

1. IT Fundamentals
2. DBMS
3. Programming Fundamentals
4. Data Engineering

## Skills

**Programming Languages:** C++ | JAVA | Python, **Web**

**Development:** HTML | CSS | Node | React,

**Database:** SQL

## Responsibilities

**INSIDERS (Team lead)**

2022 – Present

- Head of the official dance team of SASTRA.
- Achievements: Choreonite winners of NIT-Trichy - 2023, Runner-Ups in NIT-K Surathkal, CMC and MMC.
- Efficiently coordinated and executed major events for **Kuruksastra** ✉, the official cultural festival of SASTRA University.

## Certificates

- Introduction to Back-End Development - Meta (Coursera) ✉
- GUVI Python ✉

## Projects

**Ransomware Detection System** ✉

- Developed a hybrid ransomware detection system (RDS) leveraging ensemble learning methods to classify 28 ransomware families in cryptocurrency transactions using the Bitcoin Heist dataset.
- Data pre-processing includes Label encoding, Address encoding, Normalization, MinMax scaling, SMOTE, Random underSampler, Outlier removal, new features construction, and feature selection.
- Implemented a **Signature-Based RDS** framework (Stage 1) utilizing supervised learning methods to identify known ransomware variants accurately. Methods used: Decision tree, Random Forest, XGBoost, MLP classifier.
- Designed an **Anomaly-Based RDS** framework (Stage 2) to detect zero-day ransomware strains by analyzing potentially suspicious occurrences categorized as "White" instances.

**Chat Application - MERN** ✉

[Github](#) ✉

- Developed a MERN stack chat application supporting real-time one-on-one and group chats using Socket.IO.
- Implemented user authentication and authorization with JWT tokens, allowing login and signup via unique Gmail accounts.
- Designed a responsive UI with Chakra UI.
- Enabled users to upload profile pictures during signup, utilizing Cloudinary for image storage and management.
- Added functionality for users to search for existing group chats and create new ones.

**Voice Query AI with Real-Time Transcription and Response** ✉

[Github](#) ✉

- Developed a full-stack MERN application utilizing Deepgram for text-to-speech and speech-to-text transcription.
- Used Wolfram Alpha API for real-time query responses.
- Implemented voice recording, file upload functionality, and audio playback using React and Dropzone, enhancing the user experience with dynamic speech interaction capabilities.
- Used Tailwind CSS for responsive design and deployed in vercel.