

NITHIN S

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Education

National Institute of Technology Karnataka, Surathkal | **9.58 CGPA**

Nov 2022 - Aug 2026

B.Tech in Information Technology and Minor in Machine Learning

Relevant Courses: Data Structures and Algorithms, Database Management Systems, Operating Systems, Computer Networking, Web Technologies, Object Oriented Programming, Mathematics for Machine Learning and Data Science.

Technical Skills

Languages: C/C++, Python, Java, JavaScript

Technologies/Frameworks: HTML/CSS, Tailwind CSS, ReactJS, NodeJS, ExpressJS, SQL, Flask, Django

Developer Tools: VS Code, Linux, Git/GitHub, Docker, MongoDB, APIs, Cloudinary, Firebase, Streamlit, Vercel, Postman

Certifications: [Data Structures & Algorithm \(Abdul Bari\)](#), [Machine Learning \(Andrew Ng\)](#), [Java Programming \(Abdul Bari\)](#), [Full Stack Web Development \(Udemy\)](#)

Internships

Healthcare Analytics & Language Engineering Lab | [Demo](#) | [GitHub](#) | [Medium](#)

April 2024 - Present

Research Intern under [Dr. Sowmya Kamath S](#)

halelabnltk.github.io

- **Tools/Framework:** BioClinicalBERT, BioMedCLIP, PyTorch, Python, Streamlit
- Trained a Natural Language Processing (NLP) model to interpret chest X-ray images and generate radiology reports by fine-tuning BioClinicalBERT and BioMedCLIP hugging face transformers.
- Achieved a BLEU-3 score of 0.298 and an average BERT score of 0.87, with models deployed on Streamlit.

Projects

Image Style Transfer using CNNs | AesPA-Net, Python, PyTorch, Flask, Tailwind CSS | [GitHub](#) | [Demo](#) | [Medium](#)

- Implemented [AesPA-Net](#), a novel **Neural style transfer network**, incorporating the **VGG19 architecture** for applying style of style image to content image with minimal style and content loss.
- Created a Flask web application using AesPA-Net for aesthetic pattern-aware style transfer, allowing users to transform their content into artistic styles through a user-friendly interface.

Web3 Vault DApp | Solidity, Smart Contract, ReactJS, Docker | [GitHub](#) | [Demo](#) | [Live](#)

- Built a decentralized password manager, compiled in Remix IDE and deployed on Ethereum TestNet.
- Designed the frontend using ReactJS and implemented CRUD functionalities, enabling users to create an account using their **MetaMask** wallet and securely save their passwords using **Blockchain** technology.

AniTalk | Django, PostgreSQL, Python, Docker | [GitHub](#) | [Demo](#) | [Live](#)

- Created an Anime Discussion Forum Web Application using Django, featuring user authentication, CRUD operations, a responsive frontend, and a **PostgreSQL** database.
- Integrated **Django REST APIs** for third-party developers to access information on animes, users, forums, topics, and messages, providing efficient data retrieval and management endpoints.

Pixel Plate | TypeScript, React, Stripe, Auth0, ShadCN, MongoDB, Cloudinary, Docker | [GitHub](#) | [Demo](#) | [Live](#)

- Developed a MERN stack food ordering and restaurant management app with features including pagination, search/sort, **Stripe integration**, and authentication.
- Implemented mobile responsiveness, code splitting, lazy loading, and **real-time order updates** for enhanced user experience and performance.

Achievements

Branch Change: Successfully transferred to Information Technology with a CGPA of **9.76** after the first year.

Coding Platforms: Solved **700+** problems and rated **1706** (max) on [Leetcode](#), Rated **1282** on [Codeforces](#).

Class 12: Ranked third among Karnataka State board exam takers with a score of **99.68%**.

Class 10: Achieved the fifth-highest state ranking in the Karnataka State board exam scoring **99.36%**.

Leadership / Extracurricular

The Indian Society for Technical Education, NITK Chapter

Dec 2022 - Present

Executive Member

iste.nitk.ac.in

- Mentored over 50+ students under [Summer Mentorship Programme '24](#), worked on 2 projects under Crypt SIG.

The Institute of Electrical and Electronics Engineers

Nov 2022 - July 2023

Student Member

ieee.nitk.ac.in

- [Involved](#) in a project that aims to simulate a [Robotic arm](#) using the Robot Operating System (ROS).