

TUMUN SHAILY

House No. A206, Salarpuria Symphony, Pragathi Nagar, Bengaluru, Karnataka |
(+91) 7217602378 | Tumunshaily@gmail.com | [website](#) | 5 * coder at codechef

Admirer of equation $E = M(C)^2$. Energetic and passionate college student working towards a B.Tech (Hon) in Computer Science at Indian Institute of Information Technology, Kottayam. Who is seeking to find an opportunity to work in a challenging Environment. Always ready to learn new skills and improve his domain knowledge.

EDUCATION

Indian Institute Of Information Technology , KOTTAYAM

Bachelor of Technology in Computer Science, Expected Graduation May 2021

- **GPA:** 7/10
- **Relevant Coursework** – Data Analytics, Software development, Python, Algorithm and data structures, Machine learning and Mathematics for Machine learning.
- **Honors & Awards:** Sports Mentor, 5 *star* Coder at CodeChef , 5 star coder at Hackerrank , Finalist at Codegladiator2020, College soccer team Captain, 3 time soccer tournament winner
- **Clubs:** Sports Club, Coding Club, Music club, Mess committee and Cultural club.

SUN VALLEY INTERNATIONAL SCHOOL, DELHI-NCR

- **12th standard :** 81.6 % **10th standard :** 8.6/10
- **Honors & Awards:** National cyber Olympiad(sof-rank 1 high school), International Mathematics Olympiad (SOF- Rank 1 high school), National Science Olympiad(sof-rank 1 high school) Semifinalist at CBSE Cluster, Won Interschool Dance Competition.

EXPERIENCE

SDE Intern AT Delta Electronics. (Dec 2017 – Jan 2018)

- Work on ATM Security Systems. Was a part of development group where I learned how to organize project work and what the new technologies (IOT) are used for security systems.

Student Intern at Bolt Iot (Dec 2018 – Feb 2019)

- Promote their Products and Give talk on Arduino, embedded systems.

Student Partner at Internshala ISP16 (Dec 2018 – Feb 2019)

- Give talks on Internship related information, i.e., why internships are important for industries? , What are the new requirements in industries and more.

SDE Intern at INFOSOL Pvt limited (May 2019 – July 2019)

- Worked in group to develop a CV Shortlisting software for the company. In this project got deeper understanding with python, NLP (spacy), EDA, matplotlib.

Campus ambassador for IIT Bombay, IIT BHU E-cells (Dec 2019 – Feb 2020)

PROJECT AND NOTABLE WORK

CONFERENCE PAPER: BACTERIAL IMAGE CLASSIFICATION USING CNN

In this paper I have used ResNet model for classifying 22 bacteria classes after dataset cleaning and EDA. We were able to achieve 99.999% of accuracy. For more details I have attached the link

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- Our paper is published in 2020 IEEE 17th India Council International Conference (INDICON)
 - <https://ieeexplore.ieee.org/document/9342356>

IOT PROJECTS:

- **PIR_Security_Camera:** I have used PIR sensor with normal security camera, which trigger the wakeup call when there is motion near camera. If it detect no motion it goes back to sleep mode. This helps to reduce the power consumption. Link : https://github.com/tumunshaily/motion_detect
- **HomeAutomation-IoT:** Making voice controllable House using Nodemcu, Blink server, Google assistant. In this project I have made the whole house automated which can be control through Voice control (Google Assistant) and App too. Link : <https://github.com/tumunshaily/homeautomation-Iot>
- **Basic_Seven_Segment_Display:** I developed my own Basic 7 segment display from waste for a counter which count from 1 to 9. Link: <https://github.com/Uday032/Basic-7segmentdisplay>

SDE PROJECTS:

- **Youtube_Downloader:** Made a fully functional software for downloading YouTube video at any resolution (420p to 4k). Additional features: Indexed Playlist download, MP3 download and indexed mp3 download. Link: https://github.com/tumunshaily/YouTube_downloader
- **Sketchpad:** I made an open source software for all the stylus user. This project is developed on Pygame library. Link: https://github.com/tumunshaily/Sketch_pad
- **Screen Recorder:** I built this project as a need for free screen recorder. All the screen recorder app are paid which make me use my software development skill for making one free software. I use mss, Numpy, PIL, Pyautogui, cv2. Link: https://github.com/tumunshaily/Windows_ScreenRecorder

MACHINE LEARNING PROJECTS:

- **Facial_Recognition_Using_SVM:** I made this project using Python libraries i.e. sklearn {classification_report, confusion matrix, GridSearchCV, train_test_split, make_pipeline, PCA and fetch_lfw_people}, Numpy, matplotlib, pylab and Seaborn.
- **Hate Speech Detection:** hate speech detection for codemix Dravidian language (Tamil and Malayalam) models - Bert, SVM, and Logistic regression.
- **Nlp_Cv_Shortlisting:** Made a CV shortlisting software that use NLP (Spacy-phrase/word matching), python, and matplotlib for visualization.

SKILLS AND CERTIFICATIONS

