

# UDAY SONAWANE

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## EDUCATION

### Northeastern University

Master of Science in Computer Science

September 2024 - Present

Boston, MA

### Vellore Institute of Technology, Vellore

Bachelor of Technology in Computer Science (CGPA of 8.55)

August 2019 - June 2023

Tamil Nadu, India

## EXPERIENCE

### Siemens Digital Industries Software

Software Engineer Intern

June 2023 – January 2024

Pune, India

- Worked on and fixed about 70% of console log and system log errors, and improved code efficiency by fixing some unoptimized code. Additionally, I wrote some tests to improve code coverage.
- Created a program that extracts errors from error files, organizes, and categorizes them in an Excel sheet, facilitating the analysis of these errors

### YoShops

Data Science Intern

June 2022 – August 2022

Chennai, India

- Performed data analysis on data from e-commerce website and made predictions based on it.
- Wrote programs for performing web scraping, product page validation and identifying fake buyers.

### Tata Autocomp

Data Science Intern

May 2022 – June 2022

Pune, India

- Created an anomaly detection model which helped in identifying fault in sensors which were reporting 5 times the desired output current.
- Conducted extensive data analysis to accurately predict driver behavior and estimate battery life cycle expectancy.

## PROJECTS

### Securing Images from Cryptotext using DWT and Hilbert Curve | Python | April 2023

- A secure way of communicating images ensures that unauthorized users cannot access the image without the appropriate key and algorithm.
- This method employs the Discrete Wavelet Transform to eliminate steganography from images and utilizes the Hilbert curve to encode the image, so even if the transmission is intercepted, the data will remain unintelligible to attackers.

### GMail Spam Filter using AI | Python, Google Cloud, Scikit-Learn | August 2022

- A spam filter has been created using the Gaussian Naive Bayes algorithm and multiple datasets, achieving an accuracy rate of 97 percent.
- The spam filter has been integrated with Gmail using Google Cloud, enabling the program to run remotely
- The emails are also categorized based on whether they contain spam with a file, spam with a URL, or plain spam.

### Controlling Cursor using Eye Tracking | Computer Vision, Python | April 2022

- A program that enables users to control their cursor by tracking their eye movements.
- This technology is beneficial for both disabled individuals and those who prefer cursor control without using a mouse or trackpad.

## ACHIEVEMENTS

- Highest rating of **1439** at [Codeforces](#), ranked **1441** at Round 941 Div. 2, and ranked **502** at Round 944 Div. 4, which is the top site in terms of participation of programmers across globe.
- Ranked **734** at [Codechef](#) Starters 132 Div. 2 which ranks among the top sites for competitive programmers. Highest rating of 1646 and rated **3\***.
- Solved more than 700+ problems across platforms.

## CERTIFICATES

- Google Data Analytics Specialization
- UC San Diego: Algorithmic Toolbox
- Hackerrank: Problem Solving Intermediate

## TECHNICAL SKILLS

**Languages:** C++, Python, HTML/CSS, JavaScript, SQL

**Technologies/Frameworks/Libraries:** Jupyter, Numpy, Scikit-Learn, Tensorflow