# Simran Jena

## 3rd Year BTECH Electronics and Communication

My journey has been an exciting fusion of hardware and software, as I've gained a solid foundation in electronics, circuits, and systems, while also nurturing a deep fascination for coding, algorithms, and software development. Adapting is my forte! With a proactive attitude and a drive to explore, I've been the go-to person in my circle for bridging the gap between hardware and software.

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## EDUCATION

### BTECH
Vellore Institute Of Technology , Chennai

*07/2021 - 07/2025*

*Courses*
- Electronics and Communication Engineering

### Class 12
GTA VIDHYA MANDIR

*04/2020 - 04/2021*

## WORK EXPERIENCE

### Intern
HTC GLOBAL SERVICES

*08/2023 - 09/2023*                      *Chennai, India*

*Achievements/Tasks*
- As an intern at HTC Global Services, I actively contributed to an AI and Machine Learning project focused on predicting customer churn.
- Through a systematic approach, I employed diverse data processing and preprocessing techniques to enhance data quality.
- Additionally, I took a pivotal role in designing an effective AI model tailored for the task. This experience honed my skills in predictive analytics, data manipulation, and AI model development within a real-world context.

## SKILLS

C++    Python    Matlab    HTML    CSS

Javascript

## PERSONAL PROJECTS

**Efficient Image encryption using Steganography, cryptography, and Image filtering (06/2023 - 07/2023)**
- **Research Paper:** Our achievements are documented in a research paper that provides an in-depth exploration of our hybrid approach and its implications for image encryption. The paper details the methodology, experimental results, and the significance of our contributions to the field.
- **MATLAB Implementation:** We've developed a robust and efficient implementation of our encryption framework using MATLAB. The MATLAB environment allows for rapid prototyping, rigorous testing, and fine-tuning of our algorithms, ensuring optimal performance and security.

**Customer Churn Prediction (08/2023 - 09/2023)**
- **Machine Learning Model Development:** My expertise in machine learning shines as I have developed sophisticated predictive models using several algorithms. I have employed ensemble techniques, and optimized model architectures to ensure optimal performance.
- **Churn Prediction Accuracy:** The model boasts impressive accuracy in predicting customer churn. By analyzing historical customer behavior and identifying patterns, the system can accurately forecast which customers are likely to churn in the near future.

**Web Development (09/2023 - Present)**
- **HTML/CSS Mastery:** Proficient in HTML and CSS, I've translated design concepts into clean and structured code, bringing static designs to life with interactive elements.

## CERTIFICATES

MATLAB for Data Processing and Visualization (05/2023 - 07/2023)

## LANGUAGES

**English**
*Full Professional Proficiency*

**Hindi**
*Native or Bilingual Proficiency*

**French**
*Limited Working Proficiency*

**Tamil**
*Native or Bilingual Proficiency*