

# Dipesh Chandra Jha

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## Education

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### Bachelor in Electronics, Communication, and Information Engineering

November 2018 - March 2023

Purwanchal Campus, Institute of Engineering, Tribhuvan University, Dharan, Nepal

### Higher Secondary School

January 2016 - March 2018

Trinity International College, Kathmandu, Nepal

## Professional Licensure

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- Nepal Engineering Council, NEC
- Nepal Engineers Association, NEA

## Academic Projects

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### Title: REAL-TIME ARRHYTHMIA DETECTION USING CNN ON ECG SIGNALS

#### Type: Major (THESIS)

**Objective:** To classify normal and abnormal heart rhythm conditions using different CNN architectures and to make ECG testing handy, user friendly, economical and easy for users and interpret his /her condition. This model is designed to automatically learn discriminative features from raw ECG signals without manual feature extraction. We evaluated performance of the model trained on publicly available MIT-BIH Arrhythmia dataset and achieved an overall 85% of test accuracy.

### Title: ALCOHOL DETECTION AND VEHICLE LOCKING SYSTEM

#### Type: Minor

**Objective:** Our project aims to make human driving safer while also preventing accidents. This project is made by combining an alcohol sensor with an Arduino board. The ATmega328 processor on the Arduino can perform more tasks than traditional microcontrollers. The MQ3 alcohol sensor was utilized in this experiment to detect the presence of alcohol in human breath, GPS and GSM module to send the alert message with location to pre-registered number in the code.

## Non-Academic Projects

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- Built a Kura-Kani website using Socket, IO and Node Js. It's a live chat messenger website.
- I designed an e-commerce amazon front interface layout using HTML, CSS and Java-Script.
- A stunning Facebook front page clone meticulously crafted using HTML and CSS.
- I have created personal website using HTML, CSS, Java-Script, bootstrap and node.Js

*Projects Links:* [jhadipesh123](https://www.linkedin.com/in/jhadipesh123)

## Technical Proficiencies

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### Programming Languages

- HTML, CSS, JavaScript, Bootstrap, C/C++, Node.js, Python.

### IDE/Tools

- Vs-Code, Atom, Arduino IDE, MS Office365, Figma, Git & Git-Hub, Android Studio, Proteus, Jupiter notebook, Photoshop.

### Hardware

- Arduino, AD8232, ESP 8266

### Languages

- English, Nepali, Hindi

## Knowledge Areas

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- Artificial Intelligence, Big Data, Information System, Computer Organization & Architecture, Operating Systems, Computer Networks, Computer Graphics, Data Structure and Algorithms, Microprocessor (8085 & 8086).

## Awards & Achievements

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- Merit-based Full Academic Scholarship for Undergraduate Studies, awarded by Tribhuvan University (TU).
- Awarded scholarship funds in four semesters during undergraduate study for good academic standing.
- Awarded with full scholarship to pursue my intermediate level from government of Nepal under the NEB scholarship scheme.
- Awarded with Mahatma Gandhi scholarship from Embassy of India.
- Received the Award with prize money for Scoring "A" Grade in the SLC examination.

## Co-curricular Activities

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- Successfully completed National Population and Housing Census 2021 as Census Enumerator under Government of Nepal.
- Worked collaboratively with the mayor of Dharan in the cleanliness campaign of Seuti River and around campus.
- Participated in a relief program conducted by our community in Kathmandu Nepal, 2015 to help victims of the Earthquake. We collected food and clothes from each house along with some donations and handed it over to the Red Cross.
- Volunteered at the Delta program, the biggest tech event in Dharan organized by our college.