

# SUDARSHAN ACHARYA

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## Education

**Tribhuwan University**, B.E. Electronics, Communication and IT 2019 - 2023  
**Coursework:** Computer Architecture and Graphics, Artificial Intelligence, Data Structures and Algorithm, Data Mining, Information Systems, Big Data Technologies.

## Technical Skills

- **Languages:** Python, C, C++, React.js
- **Frameworks:** Flutter, Figma, Tailwind CSS, HTML5, CSS3
- **Tools:** Git, MYSQL workbench, Microsoft Office
- **Soft Skills:** Time Management, Teamwork, Communication, Problem Solving, Leadership

## Scholastic Projects

### Project 1: Crash Detection And Alerting System

- Improvement in emergency response during accidents minimizing false triggering using IMUs, GPS, and GSM.

### Project 2: Heritage in Focus: AI-based Image Captioning in Nepali Language Using CNN and LSTM

- Creating an image captioning model entailing feature extraction using CNN and LSTM models for decoding.

## Research Experiences

**Nepali Image Captioning: Generating Coherent Paragraph-Length Descriptions Using Transformer** March, 2024  
DOI: 10.36548/jscp.2024.1.006

**Drowsiness and Crash Detection Mobile Application for Vehicle's Safety** April, 2024  
DOI: 10.36548/jismac.2024.1.005

## Certificate And Grants

**React.js -Basics to Advance** April, 2024  
Digital Pathshala, Certificate No. CN-0000-0023

**Front-End Professional Advance React Developer** July, 2024  
Meta, Certificate No. 7J62KEQ7NTNL

## Github Projects

Simple Quiz App	github.com/Quiz-App
To-Do-App	github.com/To-Do-App
Tic-Tac-Toe Game	github.com/Tic-Tac-Toe
Digital-Calculator	github.com/Digi-Calculator
Personal Blog Site	github.com/React-Blog

## Achievements

Province Level Robo-Soccer Competition	Silver Medal Winner
Inter college Hackathon	Gold Medal Winner