

## **Rakhee Pandey**

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### **SUMMARY**

A highly motivated computer engineering student with a solid foundation in core principles like digital logic, computer architecture, and programming languages. Eager to learn and contribute to innovative projects, particularly in the area of computer engineering. Proficient in using which demonstrates practical understanding of this field. This strong academic background coupled with a passion for technology makes me a valuable asset for any team seeking a quick learner with a drive to succeed.

### **TECHNICAL SKILLS**

**Functional skills:** Interpersonal Communication & team working, Problem-solving, Strong analytical, Supervision, Conflict resolution

**Statistical Tools/Utilities:** Dev C/C++, MS studio, SQL , Turbo C, MATLAB, Cisco packet Tracer, Visual Studio Code, Swi-prolog, Paint, WireShark, 8085 microprocessor kit, Netbeans, MS word, MS Excel

Data Structures and Algorithms(DSA), ObjectOriented Programming(OOP), Computer Networks(CN), Object Oriented Software Engineering(OOSE),Database management system (DBMS), C Programming, Operating system, Artificial Intelligence

### **EDUCATION**

- Bachelor of Engineering (Computer Engineering), Nepal Engineering College, PU(2019-2024) ●
- VS Niketan Minbhawan, kathmandu Nepal, I.Sc. (2016-2018)

### **PROJECTS**

- **Smart Irrigation System**

Developed and implemented a smart irrigation system aimed at optimizing water usage in agriculture through the integration of technology and data-driven decision-making through HTML, JavaScript and also hardware requirements of this project includes Microcontroller(NodeMCU/Esp8266),smartphone, soil moisture sensor and soil detector module, Breadboard, Male to female jumper wires

- **Virtual Assistant**

Led the development of a virtual assistant application designed to provide users with personalized GUI-based virtual assistance and streamline daily tasks through voice commands and natural language processing (NLP) capabilities with Python, Html, CSS, Javascript

- **Nepali Optical Character Recognition(OCR) (Final Project)**

Development of an Optical Character Recognition (OCR) system specifically designed to recognize and extract text from images containing Nepali script with python, CNN(Convolutional Neural Network), Tesseract, html, css, javascript. The project aimed to facilitate digitization efforts and improve accessibility to Nepali language content across various applications.

### **PUBLICATIONS AND CERTIFICATIONS**

<https://doi.org/10.5281/zenodo.7476978>

#### **Awards and Accomplishment**

- Certificate as a batch winner of Nec Ignieum, august 2023

- Certificate of Participation as a Competitor, Hult Prize, March 2022
- Certificate of Participation as a Competitor, Center for Applied Research & Rural Development (CAARD), Dec 2021
- Accomplished several awards in sports like:- Kabaddi, Running, High Jump