

# Rashna K.C.

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## Professional Summary

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Goal-oriented computer engineering student with experience in deep learning, NLP, and AI-powered systems. Excellent skills in project management, team collaboration, and problem-solving. Well-coordinated and decisive with hands-on expertise in data analysis, software development, and technical skills, aiming to apply engineering knowledge to industry-relevant challenges.

## Education

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### Bachelor of Engineering in Computer Engineering

Thapathali Campus, Bhaktapur, Nepal 2021-2025

+2 level

DAV, Lalitpur 2018-2020

## Skills

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- **Programming Languages:** Python, SQL, MATLAB
- **Libraries/Frameworks:** Pytorch, Pandas, Numpy, Matplotlib
- **Technologies:** NLP, Data Science, OOP, Data Visualization, Data Handling, Data Preprocessing, Algorithms, pattern recognition, Generative AI, Trasformer Models, AWS, Data Mining, Snowflake, Power BI
- **Other:** Problem Solving, Communication, Microsoft Office, Multitasking, Organizational Skills, Project Coordination

## Academic Projects

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- **Lumber Spine MRI Super-Resolution using SRGAN's:** Developed a system to enhance the resolution of lumbar spine MRI images using deep learning-based super-resolution techniques.
- **AI Enhanced Interview System:** Built an AI-powered system that conducts interviews using NLP, STT, and TTS technologies to evaluate candidates dynamically.

## Personal Projects

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- **AI Based Automated Video Creator from text :** This project automatically generates a video from a given text input. It extracts important sentences or keywords from the text, creates images based on those keywords using a text-to-image model, and generates audio narration using text-to-speech technology. The images and audio are then combined into a cohesive video output.
- **AI-Powered Customer Support Chatbot :** This Project is a ecommerce chatbot that has been implemented using Rasa Framework. Python programming language has been used. It has features of product recommendation, sentimental analysis, error handling and escalation. Knowledge base integration with product information and faqs has been done using SQLite.

## Certifications

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- **Machine Learning Scientist in Python, DataCamp:** 85 hours course
- **Machine Learning Specialization, Coursera**
- **Crash Course on Python, Google**
- **Data Scientist in Python, DataCamp:** 26 hours course

## Extra-Curricular Activities

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- **NASA Space Apps Challenge:** Participated in NASA Space Apps Challenge, collaborating with a team to develop innovative solutions.

- **Vertex Hacks (All Nepal Hackathon):** Co-Lead Organizer of All Nepal Hackathon 'Vertex Hacks', successfully managing the event logistics and team coordination.
- **Microsoft Learn Student Ambassadors:** Volunteering in Microsoft Nepal. Organizing different events in the community

## **Educational Achievements**

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**+2 Aggregate GPA:** 3.78  
**SEE GPA:** 3.75

## **Languages**

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- **English:** Fluent
- **Nepali:** Native Speaker