Samjhana Timalsina

✉ timalsinasamjhana974@gmail.com   in [LinkedIn](#)   ☎   9818504383   ○ [Github](#)

PERSONAL INFORMATION

I am a self-motivated IT student driven by a passion for creating meaningful change through technological innovation. I aim to apply the knowledge and skills gained through my education, training, and hands-on experience to enhance automation and communication systems. With a collaborative mindset, a strong work ethic, and a positive attitude, I'm committed to contributing to the broader IT community. I bring two years of experience with the Robotics Association of Nepal, where I served as a Robotics Instructor and Event Assistant Manager, actively supporting research and development projects and fostering innovation through practical learning.

PROFESSIONAL EXPERIENCE

Robotics Association of Nepal (2023, Nov – 2025, June)
(Kathmandu)

➢ Worked in Ujjwal Education Project.

- Mentored and trained students through Ujjwal Education, an initiative of the Robotics Association of Nepal, empowering the next generation of innovators.
- Delivered robotics workshops and training sessions for school and college students, guiding them in designing and building real-world robotic applications.
- Utilized Arduino Uno (microcontroller), Raspberry Pi (single-board computer), and camera modules for image processing to create practical robotic solutions

.

➢ Worked as Data Analysis and Assistant Trainer
(Biomedical Equipment Management System (BEMS) Project)

- Analyzing hospital equipment data for trends and inconsistencies.
- Generating reports based on the collected data to improve system efficiency.
- Ensuring data accuracy and assisting in database management.
- Supported training sessions on biomedical equipment management and maintenance.
- Assisted trainers with materials, equipment setup, and participant engagement.
- Ensured smooth operations and contributed to achieving training objectives.

➢ Worked as Event Assistance Manager

- Assisted in planning and coordinating events, ensuring smooth execution and adherence to schedules.

- Managed event logistics, vendor communications, and on-site staff supervision.
- Oversaw budgeting, attendee support, and post-event reporting.
- Contributed to marketing efforts and maintained detailed event documentation.

➢ Work as Trainer

(Suryodaya Municipality,Fikkal,Illam)

- Conducted hands-on training sessions on using AI tools for data analysis and prediction tailored to local government data.
- Guided participants through practical use cases, including data preprocessing, visualization, and model building.
- Introduced tools such as Python, Pandas, and machine learning libraries (e.g., scikit-learn) for predictive analytics.
- Collaborated with municipal staff to identify real-world datasets and relevant prediction tasks.
- Built a custom agentic AI using OpenAI API and Pinecone for smart municipal data analysis.

Work as Customer Service Representative(NCELL) at Kantipur Management Pvt.ltd (Kumaripati, Lalitpur) Nov,2021 – Mar,2023

➢ Performed well at quality assurance evaluations by continuously actioning performance feedback to drive personal improvement.

➢ Developed empathetic client relationships and earned reputation for consistently exceeding sales goals.

➢ Handled complaints calmly and professionally, providing appropriate solutions to promote continued customer satisfaction.

PROJECTS

❖ Online Food delivery system(PHP, html, CSS, payment integration, algorithm)

- Developed a web-based food ordering platform with a user-friendly interface.
- Implemented order management, secure payment integration (Khalti), and an admin panel.
- Applied algorithms like binary search.

❖ Crop Recommendation system

- Built a web-based decision-support system for farmers to determine optimal crops based on environmental factors.
- Integrated machine learning models to enhance agricultural productivity.

❖ Insurance Premium Prediction Using Machine Learning

- Developed an ML-based prediction system using Linear Regression and Random Forest.
- Designed a Django web application for real-time predictions using Scikit-learn, Pandas, and Matplotlib.

❖ Voice Assistant Chatbot using Gemini API

- Built a voice-controlled AI chatbot using Python, SpeechRecognition, and Google Gemini API.
- Enabled real-time voice input/output with error handling for smooth interaction.

- ❖ Other Projects
  - ➢ Line tracing Robot
  - ➢ Self Balancing Bots
  - ➢ Object avoiding robot

EDUCATION

Jana Bhawana Campus, Tribhuvan University

Bachelor in Computer Application

Relevant Courses: Computer Programming, MatLab, Data Structure And Algorithms, Database Management, Advance Java, Computer Graphics and Animation, Mobile programming, Web technology, Dot.Net, Cloud computing

Shree Bajrabarahi Higher Secondary School

Higher Secondary Education (NEB)

Shreekul Vidhyalaya

Secondary Education (SLC):

TRAININGS AND WORKSHOPS:

- Participated in the Drone workshop organized by Robotics Association of Nepal.(2024)
- Participated in Digital Marketing Training by Sikumna Nepal.(2024)
- Participated in UI/UX design workshop.
- Participated in Workshop on Cubesat Design Using CUBEEK by ORION Space (2024)
- Participated in Workshop of Cyber Guard Pro of DanpheLink Pvt. Ltd. by Nirmal Dahal (2024)
- Participated in Data Science with Python Bootcamp by Evolve IT Hub Nepal.
- Participated in the Django Bootcamp held by Jobssniper(2025)
- Participated in the 1 month Bootcamp of Aqore SQL by Aqore (2025)

VOLUNTEER :

- Volunteer in Women in Data Conference – March 05, 2024   - WIT
- Volunteer in Conference organized for International Girls' in ICT Day – April 27, 2024
- Volunteer in Women in Data Conference – Feb, 2025   - WIT
- Volunteer in the event Startup Fest organized by CNIYEF – December 23, 2023

ORGANIZER EXPERIENCE:

- Assisted in the event Yantra 9.0 and lead in documentation – February 11 & 12, 2024
- Assisted in AI Conference for Prosperous Nepal – March 03, 2024
- Assisted in NYC Scientists Conference – June 19, 2024
- Assisted in Girls in Robotics and AI workshop-August 2,2024
- Assisted in International AI and Robotics Conference– 27-28 October, 2024

ACHIEVEMENTS AND CERTIFICATIONS

- Introduction to Generative AI (2024) Google cloud
- Basics of Machine Learning (2024) from Great Learning
- Introduction to Neural Network (2024) from Great Learning
- Artificial Intelligence Fundamentals (2023) from Great learning
- Introduction to Python(2023) from Great learning
- International certified career coach (2024) from Mindler
- Critical Thinking (2024) from Skill Lab

NON-TECHNICAL SKILLS:

- Leadership and Organization, Documentation, Communication, Negotiation, Teamwork,

- Researching , Critical Thinking, Project Management

TECHNICAL SKILLS:

Programming language: Python, C Programming, IoT, React.js, PHP, CSS, HTML, & Javascript,

Databases: MySQL, SQLite, Oracle,

Libraries/Framework/API: Django, flask, TensorFlow, Pandas, NumPy, Hadoop

Other skills: Microsoft Word, Microsoft PowerPoint, Microsoft Excel, Google sheets, Figma

Reference

Er. Rishav Raj (Manager of Robotics Association Of Nepal)