

# Sachin Parajuli

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EDUCATION	<b>Institute of Engineering, Tribhuvan University</b> , Nepal B.E. Electronics and Communication Engineering (Data Mining)	2015 – 2020
	<b>Kaasthamandaap A-Level Academy, Kathmandu</b> , Nepal A-Level: Physics, Chemistry, Biology, Mathematics and General Paper.	2012 – 2014
	<b>Sacred Heart English School, Itahari, Nepal.</b> School Leaving Certificate	2000 – 2012

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INTERESTS **Artificial Intelligence, Blockchain, Teaching, Public Speaking, Bonsai art, Badminton.**

- PUBLICATIONS **S. Parajuli**, S.parajuli, M. K. Guragai, **“A data driven approach to predict the risk of readmission among patients with diabetes mellitus”**, 2022 2nd International Conference on Artificial Intelligence and Signal Processing (AISP), February 2022, Vijaywada, India. **(IEEE XPLORE)**
- S. Parajuli**, M. K. Guragai, **“Human Pose Estimation In 3D using Heatmaps.”**, 2022 2nd International Conference on Artificial Intelligence and Signal Processing (AISP), February 2022, Vijaywada, India. **(IEEE XPLORE)**
- S. Pokherel, A.K. Panta, **S. Parajuli**, **“Remote Monitoring and Face Recognition Security Enabled Smart Home Using IOT”**, International Journal of Advanced Engineering, February 2018, Seoul, South Korea **(Journal Publication)**
- S. Parajuli**, A. Karna, S. Ray, Y, shah, K. Regmi, S. Kafley, **“Nepali Music Genre Classification: performance analysis using different machine learning and deep learning approach”** (Under review)
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- AWARDS **Winner: Fully automatic Solar Panel cleaning competition.**  
We won a national level robotics competition themed, "Fully automatic Solar Panel Cleaning Competition" during my second year in Engineering. The task was to build a robot that could automatically clean the solar panel of street lamp.
- Top 5 finalist: Startup and Idea Fest 2022** awarded to **BLOOD CONNECT**.  
This is the biggest award given in ICT (Information & communication technology) in the state. We were awarded by Honorable Vice chairman of Province Planning Commission for developing and operating mobile application to facilitate human blood free of cost during emergency.
- Top 5 finalist: Startup and Idea Fest 2022** awarded to **HELLO AMBULANCE**.  
This is the biggest award given in ICT (Information & communication technology) in the state. We were awarded by Honorable Vice chairman of Province Planning Commission for developing and operating mobile application to provide ambulance service free of cost during emergency.
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- RESEARCH **National Innovation Center, Kirtipur, Kathmandu** Aug 2017 – Dec 2017  
We worked to build a system to clean the front surface soiling of solar street lamps of Dharan Sub-Metropolitan Municipality. More than 90% of the solar street lights do not function at night because, the battery does not get charged in the day time due to dirt coverage in the surface of solar panels. National Innovation Center funded us to build the commercial grade cleaning robot but this work did not get desired result due to unavailability of proper cleaning material that could clean the dirt in absence of water.
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**WORK  
EXPERIENCE**

**Mobile Application Developer, Code IT.** Dharan, Nepal. Jun 2019 – Jul 2022  
Lead mobile app developer. One notable project: Designed and deployed "Covid App" for Dharan Municipality health workers during covid pandemic.

**Mobile Application Developer, Internship, Code IT.** Dharan, Nepal. Dec 2018 – May 2019  
Learned flutter and worked on various application including college management application for Hattisar Campus, Dharan.

**C++ instructor, Code IT,** Dharan Nepal. Sep 2019- May 2022  
Taught C++ to IT students in CODE IT, Dharan.

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**LEADERSHIP/  
TEACHING**

**Mathematics for Machine Learning,** June 2021

- **IAAS (International Association for Agriculture and related Science)**  
Provide training on introductory course of mathematics for machine learning to students of agriculture engineering and bachelor of science in agriculture
- **EXCESS (Electronics and Communication Engineering Student's Society)**  
Provide training on introductory course of mathematics for machine learning to students of electronics engineering.

**Robosoccer Coordinator:** National Tech-Fest DELTA-1.0 Jun-Aug 2019  
**Mentored over 50 students** for three months and organized the first ever national level robotics football competition for 3 days. Contacted media houses and got the event broadcasted in national television (Makalu TV) for 45 minutes.

**Secretary:** EXCESS (Electronics and communication engineering student's society.) 2018  
**Provided training to 100+ students** on microcontroller and basics of robotics. Organized exhibition (X-Tech Studio) and invited DR. Mahabir Pun (founder of national Innovation center) as chief guest.

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**KEY PROJECTS**

**BLOOD CONNECT**

Android application for finding blood donors and donating blood, finding nearby ambulances and getting blood bank updates in real time. Designed, programmed and deployed on google play store. Collected data of ambulance of 65 districts across Nepal, managed more than **150 pints of blood** and had official MOU with Nepal Red Cross Society.

**CBT (Computer Based Test) using blockchain**

Deployed a smart contract where questions can be added and a flutter app interface can be used to access questions and take tests. This project tries to solve the problem by taking the hash of question and time of addition of each question to retrieve questions for each session.

**RFID (Radio Frequency Identification) based prepaid system for EV's.**

Designed, developed and implemented RFID based Payment system for renting out electric vehicle in India-Nepal boarder. This is a commercial project currently managed by AllNepalCS Pvt. Ltd and is serving more than 100 electric rickshaws.

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**TECHNICAL  
SKILLS**

**Software Tools:** Unix, Git.

**Languages/Libraries:** C/C++, Python, JavaScript, Java, Flutter, Solidity.

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**TEST-SCORES**

**Test of English as foreign language (TOEFL):** 97/120.

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**COURSEWORK**

**Engineering:** Computer organization and architecture, Computer Network, Computer graphics, Data mining, Digital Signal Processing, Filter design, Control System, Object Oriented Programming, Electronic Device and circuits, Electromagnetics, Digital Logic.

**Mathematics:** Discrete mathematics, Probability and statistics, Advanced calculus.

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**CO-CURRICULARS Volunteer:** Post earthquake demolition and school rebuilding camp in in association with a non-governmental organization "Jay Nepal". I taught mathematics to school students during daytime and taught Yoga to all the volunteers in the morning.

**Basketball:** Participated in 2 intercollege tournaments as first choice player and 1 competition as a substitute player during my high school.

**QUIZ:** Represented high school in regional and national level competitions across Nepal.

**Smart Club:** One of the oldest public speaking platforms in Nepal, officially trained as a public speaker, participated in public speaking and parliamentary debate competition representing smart club during my high school.

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**LANGUAGES**      **English** (Professional Proficiency), **Hindi, Nepali** (Native/Bilingual).

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**REFERENCE**      **Asst. Prof. Manoj K. Guragai (HOD)**  
Electronics and computer engineering  
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