

# Shishir Panta

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## Education

### Huazhong University of Science and Technology

Sep. 2022 - July 2024(expected)

M.S. in Computer Science and Technology

- **Academics:** Weighted Average Score: 90.98, (Top 4)
- **Honors and Awards:** Awarded the prestigious CSC Type A Scholarship on recommendation of Ministry of Education, Nepal
- **Research Direction:** High Resolution Face Swapping and Restoration using GANs (ongoing): Aiming to contribute towards high resolution face swapping while retaining identity information.

### Pulchowk Campus, Institute of Engineering (IOE), Tribhuvan University

Nov. 2016 - Nov 2021

B.E in Electronics and Communications Engineering

- **Academics:** Passed with First Division
- **Honors and Awards:** Awarded Nepal Government Merit Scholarship
- **Major Project:** Design and Fabrication of Reaction Wheel Based Attitude Determination and Control System for Cubesat Applications

## Teaching Experience

### Cosmos College of Management & Technology

March 2022 - August 2022

Programming in C (English)

- Worked as a part-time lecturer to teach the course **Programming in C** to freshman Civil Engineering students in English, delivering comprehensive lectures and facilitating practical learning sessions.

## Research Experience

### Research Intern at an E-mobility startup in Nepal

April 2021 - June 2021

Advisor: Mr. Binam Ghimire, CEO

- Engaged in designing the power system pipeline for an e-scooter model.
- Analyzed and selected suitable components for designing and fabricating the circuitry based on availability, performance and cost.
- Collaborated with battery pack and motor control design team to integrate power system seamlessly into the e-scooter design.
- Documented the findings, methods and results to facilitate further iterations.

### Research Intern in Orion Space

Feb 2020 - Jan 2021

Advisor: Mr. Rakesh Chandra Prajapati, CEO, Orion Space Nepal

- Led the design and implementation of the Electrical Power System (EPS) for the CubeSatellite as part of the undergraduate major project.
- Performed system modeling, simulation and design.
- Designed and built Helmholtz cage to simulate magnetic field on the cube satellite.

### Research Intern in Laboratory for ICT Research & Development, IOE

Nov. 2019 - Oct 2020

Advisor: Asst. Professor Babu R. Dawadi, Pulchowk Campus, IOE, TU

- During Covid 19 pandemic, all of our classes ceased for many months. We initiated to conduct the feasibility study on using of online learning methodologies among students and faculty members.
- Performed analysis and helped draft detailed report based on collected data highlighting the viability and challenges of transitioning to online learning in IOE.
- Facilitated virtual instructional sessions to aid students in acclimating to digital learning platforms like Microsoft Teams, ensuring a smooth transition to online education.
- Provided specialized computer training to bureaucratic officers and non-academic staff members at IOE, TU.

- **Robotics Club Member for ABU ROBOCON** Nov. 2017 - Nov. 2019  
*Advisor: Mr. Ramesh Chaudhary, Pulchowk Campus, IOE, TU*
  - Engaged in a dynamic learning phase during the initial year, acquiring hands-on experience in circuit fabrication, problem analysis, solution development, and hardware design under the guidance of senior members.
  - Participated in the prestigious ABU ROBOCON 2019 as one of the representatives from Nepal, contributing significantly to the design and implementation of circuits and algorithms for a sophisticated four-legged robot.

## Professional Experience

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- **Mashoor Krishi Company Pvt. Ltd.** June 2022 - ongoing  
*Co-founder, Advisor*
  - Embarked on a role of an advisor for business development of Mushoor Home Harvest System
- **Kalki I.O.T Solutions Pvt. Ltd.** Sept. 2020 - May 2022  
*Co-founder, CEO*
  - Directed the operations as the Co-founder and CEO, steering the company's strategic vision and overseeing the delivery of cutting-edge IT solutions for clients.
  - Led the development and implementation of an innovative IoT-enabled mushroom production chamber.
  - Pioneered the establishment and facilitation of online classes catering to Public Service Commission and Teacher Service Commission aspirants, delivering comprehensive educational sessions over two highly successful programs.
- **Shiprabi Trading Concern Pvt. Ltd.** Jan. 2021 - Jan. 2022  
*Co-founder, Business Development Analyst*
  - Involved in design and execution of innovative marketing strategies, leveraging data analytics to optimize sales methodologies and maximize market penetration for the company's offerings.
  - Strategically identified and targeted potential customers through a data-driven approach, employing analytical insights to generate high-quality leads.

## Publication

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- "Simulation of Cubesat Detumbling using B-dot Controller", with Rishav Sharma, Rohit Kawari, Sagar Bhandari, Rakesh Prajapati, and Nanda Bikram Adhikari, accepted in Proceedings of International Conference on Sustainable Expert Systems, 2021. DOI: [10.1007/978-981-33-4355-9\\_40](https://doi.org/10.1007/978-981-33-4355-9_40)

## Personal Awards and Scholarship

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- **CSC Type A Scholarship** Sep. 2022 - July 2024
  - Based on a competitive entrance examination in Nepal, was selected among two students for CSC scholarship in Computer Science from Nepal.
- **Runner Up, Global Student Entrepreneur Award by EO Nepal** Feb. 2022
  - Was awarded the second prize as an emerging student entrepreneur and received a cash prize of USD 375 representing Kalki I.O.T. Solutions.
- **Second Nepal Winter School in AI** Dec. 2019
  - Selected and received scholarship to attend the intensive Second Nepal Winter School in AI organized by NAAMI.
- **Best Practicable Idea, DRR Hackathon by UINSPIRE in Nepal** Nov. 2019
  - Awarded the Best Practicable Idea
- **Merit Scholarship by Government of Nepal** Nov. 2016 - Nov. 2021
  - Awarded Merit Scholarship based on a very competitive engineering entrance examination in Nepal.

## Team Awards

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- **KMC Business Hub's Urban Innovation Program** *Aug. 2022*
  - Represented Mushoor to win a seed funding of USD 3,750.
- **ICT Awards, Rising Star Innovation Award** *Dec. 2021*
  - Led the idea to win the Award for project Mushoor.
- **Idea Khoj, KOICA-NTIC** *Nov. 2021*
  - Was selected among the top 5 teams for Kalki I.O.T. Solutions for project Mushoor.
  - Received a seed fund of USD 3,750.
- **Top 42, Hult Prize Accelerator** *May 2021 - Aug. 2021*
  - Completed the 3 month long accelerator program on social business development and was selected among the 42 teams worldwide.
- **Winner, Hult Prize 2021, Kathmandu Regionals** *Dec. 2020*
  - Led the team from Nepal to win the Regional Event for Hult Prize and reach the accelerator program. We became the first team to reach that stage.

## Certifications

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- [Data Science: R Basics](#)
- [Data Science: Visualization](#)
- [Data Science: Probability](#)
- [Data Science: Inference and Modeling](#)
- [Data Science: Productivity Tools](#)
- [Data Science: Wrangling](#)

## Technical Skills

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- **Programming Languages** - Python, C++, C, R, SQL, MATLAB, Arduino
- **Engineering Skills** - Circuit Design, KiCAD, Proteus, Simulink
- **Data Analysis** - Statistical Analysis, Data Preprocessing (Pandas, Numpy, Scikit-learn), Data Visualization
- **Machine Learning** - Linear Regression, Logistic Regression, Decision Trees, Random Forests, SVM, Neural Networks, etc.
- **Deep Learning and Computer Vision** - Pytorch for building and training neural networks, OpenCV
- **Version Control** - Git

## Other Skills

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- **Language Skills** - Nepali (Native), English (Fluent), Hindi (fluent), Urdu (speaking), Chinese (elementary)
- **Soft Skills** - Leadership, Communication, Problem-solving, Adaptability, Collaboration
- **Business Skills** - Entrepreneurship, Business Development, Project Management, Negotiation
- **Interests** - Meditation, Yoga, Trekking, Hiking, Basketball, Social Issues