

Highly motivated and passionate towards my career in the field of computer science aiming to contribute and enhance this field which should be benediction to the society.

## EDUCATION

<b>Bachelors in Computer Science and Information Technology,</b> <i>Tribhuvan University, New Summit College</i> <b>78.98 percent</b>	2015 — 2019
<b>Higher Education(HSEB),</b> <i>V.S Niketan College, Science Major</i>	2013 — 2015
<b>School Leaving Certificate, Nepal Government,</b> <i>Ideal Co-ed Academy</i> <b>81.25 percent</b>	June, 2013

## EXPERIENCE

<b>Machine Learning Engineer / Fusemachines Inc.</b> <i>AI in Education</i>	<b>Dec 2019 — Present</b> <i>Hattisar, Kathmandu</i>
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- Created 8-10 course materials with slides, lectures, quizzes and 4-5 project assignments on various topics of machine learning, deep learning, reinforcement learning, Natural Language Processing and computer vision for 3-4 colleges.
- Conducted Mathematics sessions. Participated in RL, Supervised and Unsupervised sessions.
- Trained ML Interns of 2021 batch with basic ML development process

### *Proctoring System*

- Video streaming application deploy in BigBlueButton.
- Face detection using RetinaNet and MobileNet in backbone.
- Face verification using FaceNet and InsightFace.
- Gaze estimation using model of openVino.

<b>AI Intern / Naxa Pvt Ltd.</b> <i>Vehicles Detection and Tracking System</i>	<b>Jun 2019 — Oct 2019</b> <i>Naxal, Kathmandu</i>
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- Video Data Preprocessing and Cleaning imported from Drones.
- Implement tracking algorithms using OpenCV.
- Built a foundation on python, algorithms, git, Machine learning.

<b>Co-Founder /Swastha Naari</b> <i>Intersecting technology with the women health</i>	<b>Feb 2019 — Present</b> <i>Kathmandu, Nepal</i>
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- Monthly Webinars to women and girls.
- Digital Awareness to sexually active women.
- Advocacy and health campaigns targeting remote and semi urban areas.

<b>Mentor / Women Leaders in Technology</b> <i>Non-profit organization with vision to empower young women to become innovators and leaders</i>	<b>Sept 2018 — Present</b> <i>Kathmandu, Nepal</i>
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- Pair with Wlit fellow of 2020/21 batch
- Conducted monthly sessions in leadership skills, Supervise in ML projects.

## PROJECTS

**Pneumonia detection:** Implemented a DenseNet model to detect pneumonia disease with accuracy up to 80 percent.

**Flappy bird:** Applied Deep Q-learning technique to create a Flappy bird game. Modified code to cross 100 scores.

**Plant's disease classification system:** Final year college project that classify the disease on plant by implementing CNN model from scratch and connected to android through ngrok.

**BaataiBaato:** Website build with html, css , JavaScript that shows the location.Data are collected from open source (OSM) and encouraged use of galli in Kathmandu with the help of interactive online maps, so that people use main roads less often, that then frees up main road for public transport.

**Other projects:** Emotion detection, Canteen Management System, Zendesk Customization

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# Srijana Raut

Portfolio: Personal Webpage  
LinkedIn: Profile|Srijana

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## TECHNICAL SKILLS

Languages	Python, C, C++, Sql,
Databases	MySQL, Oracle,
Frameworks	Tensorflow, Keras, Sci-kit learn, Rasa, NLTK, PySpark,
Tools	OpenCV, Pandas, Numpy, Scipy, Matplotlib, Seaborn, Git, Jupyter notebook, $\text{\LaTeX}$ ,

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## COMMUNICATION SKILLS

Languages	English, Nepali, Hindi
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## AWARDS/ACHIEVEMENTS

Presenter at digital innovation and AI Challenge, hosted by Women in Global Health	2020
Best Social Impacting Idea for "Language Translator", hosted by Code Rush	Sept 2019
Winner of Sujata Baskota Changemaker Award, Hosted by Women Lead Nepal	Feb 2019
Open data Women Fellowship, hosted by Open Knowledge Nepal	2019
Women Leaders in Technology Fellowship, hosted by WLiT	2019
First batch of Nepal Winter School in AI, hosted by NAAMI	Dec 2018
Techcamp, organized by Microsoft Innovation Center Nepal	March 2017
Generation Unlimited Youth Challenge, Hosted by UNICEF Nepal, UNDP, and Tyrocity	

- Swastha Naari was awarded as one of the promising ideas in the Generation Unlimited Youth Challenge (workshop) in the first phase.
- In the second phase, got selected among the top 2 best ideas and got the opportunity to represent the team on the global platform.

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## TRAINING CONDUCTED

**Mathematics Session** for interns of FuseMachines Inc.  
**Data Structure and algorithms class** open session of FuseByte at FuseMachines Inc.  
**Pandas and Numpy Workshop**, at New Summit College for the Bachelors of Computer Science and Information Technology stream  
**Hour Of Code**, conducted at New Summit College for the Bachelors of Computer Applications(BCA) Stream  
**TechTriX Organizer**, Conducted a hackathon competition being Academic Student Association of New Summit College  
**Graduate Student Council Vice Secretary**, at New Summit College

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## REFERENCES

<b>Bhupendra Singh Saud</b> <i>Kathmandu, Nepal</i> <ul style="list-style-type: none"><li>Program Coordinator / Lecturer at New Summit College</li></ul>	<b>Bhupendra.Saud@newsummit.edu.np</b> +977-9849148483
<b>Indra Chaudhary</b> <i>Kathmandu, Nepal</i> <ul style="list-style-type: none"><li>Supervisor / Lecturer at New Summit College</li></ul>	<b>indra.chaudhary@newsummit.edu.np</b> 977-9808599362 / 977-9851201197