Srijana Raut

(+977) 9843552084
Lokanthali, Bhaktapur
srijanarautofficial@gmail.com

Portfolio: Personal Webpage
LinkedIn: Profile|Srijana

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

Bachelors in Computer Science and Information Technology,   2015 — 2019
Tribhuwan University, New Summit College **78.98 percent**

Higher Education(HSEB),   2013 — 2015
V.S Niketan College, *Science Major*

School Leaving Certificate, Nepal Government,   June, 2013
Ideal Co-ed Academy **81.25 percent**

EXPERIENCE

Machine Learning Engineer / Fusemachines Inc.   **Dec 2019 — Present**
AI in Education   *Hattisar, Kathmandu*

- Created 8-10 course materials with slides, lectures, quizzes and 4-5 project assignments on various topics of machine learning, deep learning, reinforcement learning, and computer vision for 3-4 colleges.
- Conducted Mathematics sessions. Participated in RL, Supervised and Unsupervised sessions.
- Trained ML Interns of 2020 batch

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.

Intrusion Detection System

- Implemented random forest and autoencoder models to classify network traffic. being either benign or malware with the accuracy of 78 percent and 89 percent.
- Analyzed approximately 1 TB pcap files and visualized via TSNE.
- Researched various types of malware attacks such as Mirai Bot, Torjan, Ransomware.

AI Intern / Naxa Pvt Ltd.   **Jun 2019 — Oct 2019**
Vehicles Detection and Tracking System   *Naxal, Kathmandu*

- Video Data Preprocessing and Cleaning imported from Drones.
- Implement tracking algoriths using OpenCV.
- Built a foundation on python, algorithms, git, Machine learning.

Co-Founder /Swastha Naari   **Feb 2019 — Present**
Intersecting technology with the women health   *Kathmandu, Nepal*

- Monthly Webinars to women and girls.
- Digital Awareness to sexually active women.
- Advocacy and health campaigns targeting remote and semi urban areas.

Mentor / Women Leaders in Technology   **Sept 2018 — Present**
Non-profit organization with vision to empower young women to become innovators and leaders   *Kathmandu, Nepal*

- 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 andriod 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

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TECHNICAL SKILLS

Languages	Python, C, C++, Sql,
Databases	MySql, Oracle,
Frameworks	Tensorflow, Pytorch, Sci-kit learn, Rasa, NLTK, PySpark,
Tools	Pandas, Numpy, Scipy, Matplotlib, Seaborn, Git, Jupyter notebook, LaTeX,

COMMUNICATION SKILLS

Languages	English, Nepali, Hindi

ACHIEVEMENTS

Code Rush: Awarded as best social impacting idea, Presenter	Sept 2019
Open Knowledge Nepal: Open data Women Fellow,Research Presenter	2019
Women LEAD: Sujata Baskota Changemaker Award, Presenter	Feb 2019
Fellowship at Women Leaders in Technology	2019
First Nepal Winter School in AI: Selected as Participant	Dec 2018
Academic Student Association: Python and Data Science Workshop, TechTrix Organizer	2018
Some Coding Sprint, Techcamp by Microsoft Innovation Center Nepal	March 2017
Graduate Student Council Vice Secretary	2015 — 2016

REFERENCES

Bhupendra Singh Saud
Kathmandu, Nepal
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- Program Coordinator / Lecturer at New Summit College

Indra Chaudhary
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- Supervisor / Lecturer at New Summit College