

NISHESH AWALE

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Education

- **Institute of Engineering, Pulchowk Campus, Tribhuvan University** **Lalitpur, Nepal**
B.E. Electronics & Communication, Aggregate: 85% (University Topper) **2016 - 2021**

Experience

AI Engineer June 2022 – Present

Seelogic International

- Lead the project to develop a system that ranks the clients based on the Customer Relationship Management (CRM) and Enterprise Relationship Management (ERP) data.
- Developed project timeline and project plan to carry out the necessary tasks for the project.

Machine Learning Engineer Level I January 2022 – June 2022

Fusemachines

- Lead the project to develop a classification model to detect fake Louis Vuitton, Chanel and Gucci bags from the real ones. Located different areas of interest in the images to extract meaningful information which improved sensitivity from 90% to 95% and specificity from 87% to 95%.
- Created a system to rank the resumes of candidates based on the job description. Performed topic extraction to select relevant skills from the resume and job description.

Machine Learning Engineer Associate April 2021 – December 2021

Fusemachines

- Developed AI enabled product to extract information from handwritten forms. Improved Nepali OCR system for handwritten text upto 25% character error rate with regularization, hyperparameter tuning and error analysis.
- Worked on AI models to detect tables in financial documents. Experimented with both machine readable and scanned pdf (both bordered and borderless).

Machine Learning Engineer / Freelancer July 2020 – November 2020

Selcouth Technology

- Developed a deep learning system to perform continuous authentication of smartphones from the behavioral data using mobile sensors.

AWS AI/ML Intern September, 2020 – December, 2020

Genese Solution

- Understood about cloud computing and hosting web server as well as other different services on AWS.

Publication

- Sangam, Nishesh (2022). CNN-Based Continuous authentication of Smartphone using Mobile Sensors. *International Journal of Innovative Research in Advanced engineering* (Vol.9, Issue8, pp.361–369). AM Publications, Ind doi:10.26562/ijirae.2022.v0908.37

- Awale, N., Pandey, M., Dulal, A. & Timsina, B. (2020). Plagiarism Detection in Programming Assignments using Machine Learning. *Journal of Artificial Intelligence and Capsule Networks*, 2(3), 177-184. doi:10.36548/jaicn.2020.3.005

Awards and Honors

- **University Topper** 2021
Tribhuvan University
- **Ncell Scholarship and Excellence Award** 2020, 2019 & 2017
Ncell
- **Fonepay Student Ambassador** 2020
Fonepay
- **Yantra Learning 8.0 Thematic Category Winner** 2020
Robotics Association of Nepal
- **AI Fellowship** 2019
Fusemachines
- **Blockchain Challenge Winner** 2019
Everest Hack
- **Rising Student ICT Award** 2019
Living with ICT
- **Institute of Engineering Scholarship for B.E.** 2016
Institute of Engineering, Tribhuvan University

Teaching and Mentorship Experience

Hardware Fellowship 25th November, 2019 - 5th December, 2019
LOCUS 2020

- Taught about Arduino programming and electronic hardware design for almost 100 students from freshmen and sophomore year.
- Mentored a group from junior year to carry out their project for display in the 17th National Technological Festival of our college.

Children in Technology 14th - 20th November, 2017
LOCUS 2018

- Conducted sessions for different high schools in Nepal to teach their students about the basic electronics and programming.

Exchange Program and Fellowship

Sakura Science Exchange Program 16th - 23rd December 2019
Japan Science and Technology Agency

- Hosted by National Institute of Technology, Kisarazu, Japan in which different sessions, paper presentations and industrial visit were held.
- Attended seminars on emerging technologies used in Japan such as Artificial Intelligence and Internet of Things(IOT).

AI Fellow April 2019 - March 2020
Fusemachines

- Learned about linear algebra, probability & statistics necessary for machine learning and did hands-on projects.
- Completed two courses on Artificial Intelligence and Machine Learning of Columbia University on

edX.

First Nepal Winter School in AI

20th – 30th December 2018

Nepal Applied Mathematics and Informatics Institute for Research (NAAMII)

- Attended mathematics and machine learning / deep learning sessions from distinguished professors and guest speakers.
- Completed lab works on machine learning, computer vision and natural language processing.

Presentation

6th International Workshop on Effective Engineering Education

15th - 22nd March 2019

National Institute of Technology, Kisarazu, Japan

- Presented our project of plagiarism detection in programming as well as electronic text assignments among 100 participants.
- Different features were computed from the programming assignments and xgboost was used as a classifier. For electronic text assignments, sentence BERT was used to generate the encodings and FAISS was used for similarity search among the sentences.

5th International Workshop on Effective Engineering Education

16th - 23rd December, 2019

National Institute of Technology, Kisarazu, Japan

- Presented our project related remote health care among 100 participants in which the data from different health sensors were sent to the doctor over the Internet.
- ECG classifier system was also developed to predict different levels of arrhythmia.

Skills

- **Programming Languages:** Python, C, C++, Javascript, SQL
- **Machine Learning:** Pytorch, Tensorflow, Numpy, Pandas, Matplotlib, Scikit-Learn, OpenCV, Spacy, NLTK, CometML
- **Backend:** Django, Rest framework, Flask, Fastapi, Streamlit
- **Frontend:** HTML, CSS, ReactJS, Bootstrap
- **Database:** MySQL, MongoDB
- **Deployment:** Docker, AWS
- **Soft skills:** Leadership, Teamwork, Time management, Good communication
- **Languages:** English, Nepali, Newari, Hindi