

# NISHESH AWALE

Khapinchhen-09, Lalitpur, Nepal

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## Education

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

## Experience

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**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

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- 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

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- **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

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**Hardware Fellowship** 25<sup>th</sup> November, 2019 - 5<sup>th</sup> 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 17<sup>th</sup> National Technological Festival of our college.

**Children in Technology** 14<sup>th</sup>, 15<sup>th</sup> & 16<sup>th</sup> 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

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**Sakura Science Exchange Program** 16<sup>th</sup> – 23<sup>rd</sup> 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**

20<sup>th</sup> – 30<sup>th</sup> 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**

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### **6<sup>th</sup> International Workshop on Effective Engineering Education**

15<sup>th</sup> - 22<sup>nd</sup> 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.

### **5<sup>th</sup> International Workshop on Effective Engineering Education**

16<sup>th</sup> - 23<sup>rd</sup> 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**

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- **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