

Saksham Maharjan

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EDUCATION

NATIONAL COLLEGE OF ENGINEERING

Bachelor of Engineering

Relevant Coursework: Data Analysis, Software Engineering; Operating Systems; Artificial Intelligence; Data Mining

Lalitpur, Nepal

Expected Apr 2025

WORK EXPERIENCE

AiR Lab NCE

Research Assistant

Lalitpur, Nepal

Apr 2024 – Feb 2025

- Worked on an electronics and AI joint project under supervision of the research head.
- Worked on projects regarding wi-fi signals, beamforming techniques and machine learning.

PROJECTS

MEDICINE LABEL EXTRACTION SYSTEM

- A system which recommends the dosage limits, indications of medicines using the blister packets image.
- Used OCR and NER system for extraction and recognition.
- Used MySQL for a local database.

AUTOMATIC VIDEO SCRIPT GENERATION

- Generates dense video captions by feeding varying length videos, utilizing the transformers architecture.
- Project funded by NCE R&D Unit for NCE Research Grant.

HUMAN ACTIVITY RECOGNITION USING WIFI SIGNALS

- Detects human activity using wi-fi CSI data.
- Used conv1D and LSTM for prediction.

MISCELLANEOUS

- Implementation of neural networks using NumPy.
- MNIST handwritten digit detection using neural networks.
- Implementation of LSTM for Image Classification on Fashion MNIST.

ACTIVITIES

WORKSHOP ON RADIO SIGNALS AND CSI

Lalitpur, Nepal

Mentor

- Conducted knowledge transfer program on CSI and its integration with machine learning algorithms.

IEEEEXTREME

Kathmandu, Nepal

Member

- Attended a 24 hour programming competition conducted by IEEE Nepal.

GRITFEAT SOLUTIONS

Lalitpur, Nepal

Participant

- Participated in AI Hackathon 2023 conducted by GritFeat Innovations Lab in association with LOCUS 2023.

NCE YATRA 4.0

Lalitpur, Nepal

Participant

- Participated in a 24 hour hackathon conducted by NCE IT Club.

ADDITIONAL

Technical Skills: Python, Numpy, Pandas, TensorFlow, PyTorch, Linux.

Certifications & Training: AI with Machine Learning and Deep Learning training from TechAxis.