

Utsav Maskey

AI / ML Enthusiast | +977 9863475127

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SUMMARY / SKILLS

Practical machine-learning enthusiast, eager to contribute and avail in data driven fields. Intermediate understanding and proficiency of platforms for effective machine-learning including Pytorch, Pandas, R and spreadsheets; with mild experience in Web-development including FastAPI, Flask, MongoDB, Django and SQL. Marginally presuming yet open-minded person, motivated to learn, grow and excel in disciplines that employ statistical intelligence.

EXPERIENCE / PROJECTS

Information Language Processing & Research Lab, *Researcher*, Kathmandu University **February 2022 – July 2022**

- Worked on projects aimed at training Large Language Models (LLMs) on the Nepali language including: [distilbert-base-nepali](#), [deberta-base-nepali](#) and [distilgpt2-nepali](#).

Supercomputer Center Kathmandu University, *ML Volunteer*, Kathmandu University **March 2022 – Present**

- Aided researchers and enthusiasts with the use of High-Performance Computing (HPC) resources.
- Conducted workshops regarding server configuration and model training on remote distributed using Slurm Workload Manager.

Ocular Parking System, *Semester Project* **December 2019 – March 2020**

- A computer vision-based system that extracts real-time information on parking lot vacancy and occupancy (Number of available parking spots), and displays it in an interactive leaflet map.
- Implemented on Python using Pytorch, OpenCV, Detectron and Folium map.

Class Routine Management, *Semester Project* **April 2021 – August 2021**

- Aims at automating class' routine schedules by reducing the hassle of finding vacant classrooms in a large institution, caused due to unnoticed changes in routine. It is a web platform for college routine management, class placement and its arrangement.
- Backend implemented on Python using FastAPI, PostgreSQL (using TortoiseORM) and ReactJS for Frontend.

Other Pet Projects: *Shashin-finder*: Search for images in a folder by photo description, tags or objects present.

- Resume Clustering*: Cluster resumes by projecting the text's sentence embeddings and comparing their cosine similarity.
- Dailygram*: News aggregation website that ranks the importance of news and presents it in a summarized form.
- AfterImage*: Assist photo-editing tasks such as object removal, copying, translation & replacement using image processing and DL.

ORGANIZING / LEADERSHIP

AI Competition, *IT Meet 2022*, Kathmandu University **August, 2022**

- Conducted a Machine-learning focused competition where 10 teams of undergraduate students (Total of 30 students) worked on training ML models for image and text classification; and performed data visualization.

EDUCATION

BSc. in Computer Science, *Kathmandu University*, Dhulikhel 45200, NP **August 2018 – Present**

- Courses*: Artificial Intelligence, Statistics & Probability, Calculus & Linear Algebra, Algorithms & Complexity, Database Systems
- Electives*: Machine Learning, Information Security

Fusemachines AI Fellowship, *Fuse.ai*, Online **January 2023 – Present**

- Currently involved in *Microdegree™ in AI (Machine Learning)* Course

FastAI Deep Learning Course (Part2, 2022), *Fast.ai*, Online (Estimated completion: April 2023) **October 2022 – Present**

- This online course focuses on implementing cutting-edge deep learning algorithms including Stable Diffusion and covers advanced topics such as contrastive learning, transformer models, auto-encoders, and CLIP embeddings, using plain PyTorch in Python.

Nvidia Deep Learning Institute (DLI) Courses, *Nvidia*, Online (Self-paced) **November 2022 – Present**

- Took three courses, with each course focusing on Inference / Model Deployment, Real-Time Video AI Application and the fundamentals of CUDA.

Deep Learning Specialization *deeplearning.ai*, Online: [Certificate Verification](#) **April 2018 – June 2018**

AWARDS & PUBLICATIONS

U. Maskey, M. Bhatta, S. Bhatt, S. Dhungel, and B. K. Bal, “Nepali Encoder Transformers: An Analysis of Auto Encoding Transformer Language Models for Nepali Text Classification,” in *Proceedings of the 1st Annual Meeting of the ELRA/ISCA Special Interest Group on Under-Resourced Languages*, pp. 106–111. Available: <https://aclanthology.org/2022.sigul-1.14>

June 2022

SOFT SKILLS AND INTERESTS

Language: English, Nepali, Conversational Japanese

Hobbies: Piano | Typing | Gaming | Cardistry | Data Collection