



# NepAI Applied Mathematics and Informatics Institute for research

Established under Nepal Company Act 2063 B.S as a non-profit distributing organization  
(Company Registration Number: 185418/074/075)  
and affiliated to Social Welfare Council of Nepal (Affn No. 48180)

✉ Jwagal Madhu Marg, Lalitpur  
✉ info@naamii.org.np  
🌐 <https://www.naamii.org.np/>

Date: 15 June 2023

## Certificate of Participation- 4<sup>th</sup> Annual Nepal AI School (ANAlS), 2023

This is to certify that **Swayam Dhakal** attended the 10-day Fourth Annual Nepal AI School (ANAlS) 2023 organized by NepAI Applied Mathematics and Informatics Institute for research (NAAMII) at Pathshala Nepal Foundation, Kathmandu, Nepal on May 22 – June 1, 2023.

The 10-day ( 55 hrs lectures + 18 hrs lab sessions + 14hrs Project and Professional development sessions) AI School covered the following topics:

- Day 1: Introductory Session, Geometric Deep Learning: A Unified View of Deep Learning, Probability and Statistics, Machine Learning (ML) and Neural Network(NNs), Hackathon Introduction, ML Lab session.
- Day 2: ML Foundations, Linear Algebra, NNs Foundations & Training, Session on Software Design and Development, NNs Lab session.
- Day 3: Transformers for Graph and Geometric Deep Learning, Transformers in Vision, Transformers Applications, Networking Session, Lab session in Transformers.
- Day 4: Natural Language Processing (NLP) Foundations, NLP Applications, Machine Translation - Foundations & State of the Art, Session on Building Business from Idea, Lab session on Sentiment Analysis.
- Day 5: Learning by Augmentation and Generation , Self-supervision & Active Learning, Trustworthy AI, Session on Presenting Your Ideas, Lab session on Active Learning & Augmentation.
- Day 6: Multi-Modal AI, Trustworthy AI, Visual Place Localisation, Session on Human Centre Design, Lab session on Visual Localisation.
- Day 7: Geometric Deep Learning, Geometric Deep Learning: Examples on Brain Surfaces, AI and Non-Traditional Data for Social Good, Session on Incubator and Accelerator, Lab session on Graph Neural Networks (GNN).
- Day 8: AI for Robotics, Visual AI, Research at NAAMII, Messy tables: the remaining frontier of ML, Lab session on Visual Odometry and Visual SLAM.
- Day 9: Computer Vision, Panel Discussion: Future of AI in Low-resource Context, Low-resource AI, Lab Session on Federated Learning.
- Day 10: Responsible AI in Large Language Models, Ethics AI , Networking Session, Project Presentation, Hackathon Presentation and Closing.

### Speakers

- Mr. Abhinav Joshi (IIT Kanpur)
- Dr. Ashutosh Modi (IIT Kanpur)
- Prof. CV Jawahar (IIIT Hyderabad)
- Dr. Debdoot Sheet (IIT Kharagpur)
- Dr. Ferda Ofli (QCRI, Qatar)
- Dr. Gaël Varoquaux (Inria, France)
- Dr. Herve Lombaert (ETS Montreal)
- Dr. Jwala Dhamala (Amazon Alexa NLU)
- Prof. Michael Bronstein (Uni. of Oxford)
- Dr. Nripesh Parajuli (Caption Health)
- Ms. Shreyasha Paudel (Uni. of Toronto)
- Dr. Suman Raj Bista (NAAMII, Nepal)
- Mr. Suman Sapkota (NAAMII, Nepal)

- Dr. Andrew King (King's College London)
- Dr. Binod Bhattacharai (Uni. of Aberdeen/ NAAMII)
- Mr. Federico Barbero (Uni. of Oxford)
- Dr. François Rameau (SUNY, South Korea)
- Dr. Hae-Gon Jeon (GIST, South Korea)
- Mr. Jacob Bamberger (Uni of Oxford)
- Dr. Kris Sankaran (UW-Madison)
- Mr. Nikola Popovic (ETH Zürich)
- Prof. Pushpak Bhattacharyya (IIT Bombay)
- Mr. Vijay Prakash Dwivedi (NTU, Singapore)

- Prof. Angela Yao (NUS, Singapore)
- Dr. Bishesh Khanal (NAAMII, Nepal)
- Dr. Danda Pani Paudel (ETH Zürich/ NAAMII)

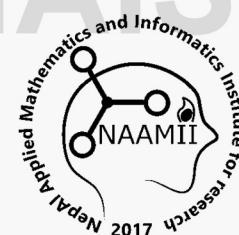
### Professional Development Sessions

- Mr. Aman Shrestha (UNDP Nepal)
- Mr. Bijayan Bhattacharai (Diyo.AI)
- Mr. Kaushal Wagle (King's College Nepal)
- Ms. Kithmini Missanka (Citra Lab)
- Mr. Nirdesh Dwa (Veda App)
- Mr. Santosh Pandey (Offering Happiness)
- Mr. Udgum Khadka (King's College Nepal)

Yours Sincerely,

**Dr. Danda Pani Paudel**  
**Program co-chair (Academic)**

Website: <https://www.4nepschool.naamii.org.np/>



**Dr. Suman Raj Bista**  
**General Chair**

Email: [nepalaischool@naamii.org.np](mailto:nepalaischool@naamii.org.np)