Hewan Shrestha

Curriculum Vitae

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Education

2023–Present **M.Sc. in Visual Computing**
Universität des Saarlandes, *Germany*.

2018–2022 **B.Tech. in Computer Science and Engineering**
Jawaharlal Nehru Technological University Anantapur, *India*.
Thesis Title: Deep Learning based Detector for Face Mask Recognition
Grade: 9.12/10.0

2016-2018 **Secondary High School Education**, *Nepal*.
Grade: 3.43/4.0

Research Interests

- Remote Sensing
- Demography
- Computational Social Science

Research Experience

May '23–Present **Research Assistant**, *Interdisciplinary Institute for Societal Computing*, **Universität des Saarlandes**, Germany.
Task: Currently working on finding migration patterns in conflict-affected regions with low-resolution remote sensing data

Feb '22–Apr '22 **Research Intern**, *Lab of Software and Service Engineering*, **Innopolis University**, Russia.
Task: Compared and analysed detection and tracking results using one-stage and two-stage algorithms on face mask dataset

Mar '20–Jul '21 **Undergraduate Research Assistant**, *Department of Computer Science & Engineering*, **Madanapalle Institute of Technology & Science**, India.
Task: Processed brain tumor MIR images with image segmentation and deep convolution neural network for melanoma detection

Relevant Skills

Programming Language: Python, C

Libraries & Framework	PyTorch, scikit-learn, OpenCV
Operating Systems	Windows, Linux, Mac0S
Miscellaneous	Microsoft Office, Academic research, LaTeX typesetting and publishing

Languages

Nepali	Native Speaker
English	IELTS(Reading-7, Writing-7, Listening-8.5, Speaking-7.5)
German	A1 passed in NPTEL exam

Professional Activities

Journal Reviewer	Journal of Supercomputing (Springer)

Publications

Journals

- **Hewan Shrestha**, Subash Chandra Bose Jaganathan, Chandramohan Dhasarathan, Kannadhasan Suriyan. Detection and classification of dermatoscopic images using segmentation and transfer learning. Multimedia Tools and Applications (2023).[Link]
- **Hewan Shrestha**, Puviyarasi T., Sana Sodanapalli, Chandramohan Dhasarathan. Evolution of Fog Computing Applications, Opportunities, and Challenges: A Systematic Review. International Journal of Fog Computing (2021).[Link]
- **Hewan Shrestha**, Chandramohan Dhasarathan, Shanmugam Munisamy, Amudhavel Jayavel. Natural Language Processing Based Sentimental Analysis of Hindi (SAH) Script an Optimization Approach. International Journal of Speech Technology (2020).[Link]

Conferences

- **Hewan Shrestha**, Swati Megha, Subham Chakraborty, Manuel Mazzara, Iouri Kotorov. Face Mask Recognition Based on Two-Stage Detector. Intelligent Systems Design and Applications (2023).[Link]
- **Hewan Shrestha**, Chandramohan Dhasarathan, Manish Kumar, R. Nidhya, Achyut Shankar, Manoj Kumar. A Deep Learning Based Convolution Neural Network-DCNN Approach to Detect Brain Tumor. Proceedings of Academia-Industry Consortium for Data Science (2022).[Link]
- Chandramohan Dhasarathan, **Hewan Shrestha**. An NLP Based Sentimental Analysis and Prediction: A Dynamic Approach. International Conference on Communication, Networks and Computing (2021).[Link]

Book Chapters

- Sana Sodanapalli, **Hewan Shrestha**, Chandramohan Dhasarathan, Puviyarasi T., Sam Goundar. Recent Advances in Edge Computing Paradigms: Taxonomy Benchmarks and Standards for Unconventional Computing. Research Anthology on Edge Computing Protocols, Applications, and Integration (2022).[Link]

References

Available on Request