MANOJ JOSHI

Kathmandu, Nepal

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Research Gate, Google Scholar, Github

PERSONAL STATEMENT

My research interests involve the development of continual and data-efficient intelligent systems. Currently, I have been focusing on domains such as few-shot learning, transfer learning, meta-learning, and domain adaptation.

EDUCATION

Institute of Engineering, Tribhuwan University	*2019 - 2021*
M.Sc Computer Systems and Knowledge Engineering	**85.60 %**

Thesis: Meta-Learning and Fast-Adaptation for 3D head pose estimation

Project: Hyperspectral Spatial Objects Separation By Convolutional Autoencoders

Advanced College of Engineering and Management, Tribhuwan University	*2011 - 2015*
B.E. in Computer Engineering	**62.23 %**

Thesis: College Management Information System

JOURNAL PUBLICATIONS

1. [**IJERTCS 2023**] Joshi, M., Pant, D. R., Heikkonen, J., Kanth, R. (2023). "One, Five, and Ten-Shot-Based Meta-Learning for Computationally Efficient Head Pose Estimation.," 14(1), 1-24. http://doi.org/10.4018/IJERTCS.316877

CONFERENCE PUBLICATIONS

1. [**FRUCT 2022**] M. Joshi, D. R. Pant, R. R. Karn, J. Heikkonen and R. Kanth, " Meta-Learning, Fast Adaptation, and Latent Representation for Head Pose Estimation," 2022 31st Conference of Open Innovations Association (FRUCT), 2022, pp. 71-78, doi: 10.23919/FRUCT54823.2022.9770932.

2. [**IOEGC 2021**] Joshi, M., Pant, D. R., & Acharya, B. (2021). "Head pose estimation by few shot learning techniques". Proceedings of 10th IOE Graduate Conference, 10, 1391–1397.

3. [**IOEGC 2021**] Acharya, B., Pant, D. R., & Joshi, M. (2021). "Spiking Neural Network based Handwritten Devanagari Character Recognition". Proceedings of 10th IOE Graduate Conference, 10, 1383–1390.

TECHNICAL STRENGTHS

Programming Languages	C/C++, Python, C#, Javascript, SQL
Machile Learning	Pytorch, Tensorflow, Scikit-Learn, Matplotlib, Numpy, Pandas
Web Development	ASP.NET Core, React, Django

WORK EXPERIENCE

Cotiviti Nepal Pvt. Ltd.	**2021 - Continue**
Senior Software Engineer	

Working as .NET Engineer on research and development department of Cotiviti. *Responsible for developing claim processing systems.*

Online Kachhya Pvt. Ltd.   **2019 - 2021**
Senior Software Engineer

Co-founder and senior software engineer. *Responsible for developing online MOOC portal.*

Verscend Technologies Pvt. Ltd   **2017 - 2019**
Data Analyst

Worked as .NET Engineer on research and development department of Verscend (currently Cotiviti). *Responsible for developing claim processing systems.*

Silent Turtle Pvt. Ltd   **2016 - 2017**
Software Engineer

Co-founder and software engineer. *Responsible for developing various e-commerce applications.*

TEACHING EXPERIENCE

- **Part time lecturer** at Kathmandu Engineering College: Web Technologies, Enterprise Application Design and Development

- **Part time lecturer** at Sambriddhi College: Web Development with Django, Data Structure and Algorithms

- **Part time lecturer** at British College: Databases, Foundations of Mathematics, Introduction to Java Programming

AWARDS

- Winner of the Hackathon organized by COTIVITI Nepal. *Project Title: PHI/PII data de-identification using transformers from screenshots.*

- Winner of the best project award in Tech Bihani project exhibition organized by project associate of computer and electronics (PACE), Advanced College of Engineering and Management, Nepal. *Project Title: Android based school management system.*

PARTICIPATION

- Participated on National Military Science and Technology Competition(MSTC), Nepal. *Project Title: Secure information exchange using image steganography.*

- Participated on National Robotics Competition organized by Robotics Association of Nepal. *Project Title: Bluetooth controlled robot using ATmega16 microcontroller*

ACADEMIC ACHIEVEMENTS

- Graduated with distinction with rank 5th in overall, and topper in one semester in M.Sc. Computer System and Knowledge Engineering, Institute of Engineering, Pulchowk, Nepal

SEMINARS

- Conducted a two-day long seminar on *Fundamentals of Machine Learning* to the students of Bachelor of Education in Computer Science and Information Technology, Far-western University, Kanchanpur, Nepal.