

Prasiddha Siwakoti

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Education

- Apr.2017 -Apr.2020 **MSc in Information and Communication Engineering**, *Institute of Engineering,Pulchowk Campus, Tribhuvan University, Lalitpur, Nepal, (Score: 83.13%)*
- Thesis Title "Classifiable Handwritten Characters Image Super-Resolution Using a Generative Adversarial Network "
- Oct.2012 - Sept.2016 **BE in Electronics and Communication Engineering**, *Himalaya College of Engineering, Tribhuvan University, Lalitpur, Nepal, (Score: 74.51%)*
- Project Title "Integrated Biometric Access Control System"

Research Experience

- Nov.2015 - Jan.2016 **Research Intern**, *LogicTronix* , Lalitpur, Nepal
- Studied FPGA IP development and hardware design.
 - Hands-on experience on using Xilinx development environments, such as Vivado and ISE.
 - Worked on projects involving custom IP core development and hardware design

Publications

P. Siwakoti and S. K. Ghimire. Devnagari Handwritten Characters Image Super-Resolution based on Enhanced SRGAN. *Journal of the Institute of Engineering*, 16(1):103–109, 2021.

Teaching Experience

- Oct.2017 - Apr.2018 **Part-time Faculty**, *Faculty of Management, Nepal Commerce Campus, Tribhuvan University* , Kathmandu, Nepal
- Delivered computer graphics lectures to undergraduate students on topics such as raster and vector graphics, 2D and 3D transformations, shading and rendering
 - Conducted labs and provided guidance to students to reinforce concepts learned in lectures
 - Prepared and graded exams, assignments, and lab reports
- Apr.2016 - Oct.2016 **Assistant Instructor**, *LogicTronix Nepal* , Lalitpur, Nepal
- Assisted in teaching :tools like Xilinx Vivado and ISE, Languages: VHDL and Verilog to undergraduate students in a digital design course

Work Experience

- Oct.2018 - Present **Telecom Engineer** , *Nepal Telecom* , Kathmadu, Nepal
- Integrated Maintenance: Maintained and optimized multi-service networks, including GSM, LTE, Fiber and Microwave links, identified and resolved network issues to minimize downtime
 - Transport Network: Managed and optimized Multivendor Routers and Switches in both L2 and L3 layer both logical and physical
 - Automation: Implemented network and system automation tools in Python using Netmiko, Napalm, and Nornir, to automate network configuration, deployment, and monitoring tasks
- Nov.2016 - Apr.2017 **IP Engineer** , *Subisu Cablenet Ltd.*, Kathmandu, Nepal
- Worked on Docsis technology

Projects and Presentations

- Presentation Presented project at 7th National Conference on Science and Technology, By NAST
- Image Processing Integrated Biometric Access Control System
- ML Generating Digits Using GAN

Skills

- Programming Python, JS, C/C++
- Machine Learning Classification, Regression, Clustering, Deep Learning, GAN
- ML Tools Tensorflow, Keras, Pandas, NumPy
- Networking Switching: vlans ,vpls Routing: ospf, isis, bgp, vrf
- Automation Netmiko, Napalm, Nornir

Awards and Scholarships

- Winner Won the First National FPGA Competition, Nepal
- Scholarship Scholarship offered by Himalaya College of Engineering for B.E.
- Scholarship Full Scholarship for studying High School By Higher Secondary Education Board

References

Sharad Kumar Ghimire
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