

# Shailesh Bahadur Pandey

Faculty Associate, Southasia Institute for History and Philosophy

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## PROFILE

- **LinkedIn** <https://www.linkedin.com/in/shaileshbp>
  - **ResearchGate** <https://www.researchgate.net/profile/Shailesh-Pandey-6>
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## EDUCATION

PhD in Computer Science (Artificial Intelligence) 2014  
**University of York, UK**

My thesis focused on Question Answering where I built models using tools and techniques from Natural Language Processing, Machine Learning and Probabilistic Modelling. The thesis is titled "Learning to rank and Order Answers to Definition Questions". It is available at <https://etheses.whiterose.ac.uk/5040>

B.E. in Computer 2004  
**Nepal Engineering College, Bhaktapur**

My dissertation was in the area of Compiler Design and Natural Language Processing. It is titled "Machine Translation of Programming (Artificial) Language into Natural Language"

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## Academic Positions

Faculty Associate June 2025 – Till Date  
**Southasia Institute for History and Philosophy, Nepal**

I have been involved in the design and development of the curriculum and syllabi for the MA program in History and Philosophy. Currently, I hold a full-time faculty position at SiHP, where my primary responsibilities include conducting research and teaching courses, with a particular focus on the technology stream.

Professor, Head of Research Feb 2021 – Till Jun 2025  
**Everest Engineering College, Nepal**

Instructor of the course Artificial Intelligence and Intelligent System offered to undergraduate students of engineering. I also lead the research department.

Assistant Professor May 2012 – Jan 2015  
**Nepal Engineering College, Bhaktapur, Nepal**

Instructor for the course Artificial Intelligence, Programming in C and supervision of final year projects.

Lecturer Apr 2005 – Dec 2010  
**Nepal Engineering College, Bhaktapur**

Instructor for the courses in Computer Science and supervision of final year projects.

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## Research Positions

Senior Researcher

Nov 2014 – Dec 2019

**Martin Chautari, Thapathali, Nepal**

My major contributions were to conceive, design and execute two two-year projects on aspects related to the potential of Internet based technologies in Nepal. The projects were funded by the Ford Foundation from 2014-2019. The project involved policy reviews, archival studies and substantial fieldwork (questionnaire surveys, interviews, focus groups, workshops, ethnography, case studies) using multi-disciplinary research methodology and analysis approaches to study the infrastructure, access and use of the Internet. Information about the project are available here:

(i) Connected Futures: Framing Interventions to Universal Connectivity in Nepal

<http://www.martinchautari.org.np/index.php/projects/?pid=1>, and

(ii) Framing pathways to IT infrastructure development in Nepal

<http://www.martinchautari.org.np/index.php/projects/?pid=5>

Research Affiliate

2012 – 2015

**Nepal Engineering College, Bhaktapur, Nepal**

I worked on projects undertaken by Center for Research in Social Defense Technology (CRSDT/nec) which was a research centre at the institution.

Researcher

Jan 2009 – June 2009

**University of York, UK**

Worked on a five-year Indect project funded under the EU FP7 IP programme at University of York, UK (Task: Description of the XML data corpus schema and methodology for collection, cleaning and unified representation of large textual data from various sources: news reports, weblogs, chat etc.)

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## Publications: Natural Language Processing and AI

### Theses

*Learning to Rank and Order Answers to Definition Questions*, S. Pandey, PhD Thesis - University of York. Available: <http://etheses.whiterose.ac.uk/5040/>, 2014.

*Machine Translation of Programming (Artificial) Language into Natural Language*, S. Pandey and S. Basnet, Undergraduate Dissertation – Nepal Engineering College, 2004.

### Journal Articles and Conference Papers

S. Acharya, G. Shrestha, S. K. Saru, A. Bhandari and S. Pandey. "A Data-Driven Analysis on the Impact of Instagram on Loneliness, Happiness, and Social Comparison." 2025 3rd International Conference on Intelligent Systems, Advanced Computing and Communication (ISACC). IEEE, 2025.

Location-Based Measure for Relative Importance of Papers in NLP, Md. Mobasshir Alam and S. Pandey, International Conference on Advances in Computation, Communication and Information Technology, India, IEEE, 2023.

An Empirical Investigation of the World Happiness Report: The Effect of Human Development, Religiosity and Suicide Rate, B. Shrestha, B. P. Rajbanshi and S. Pandey, ICACCIT, IEEE, 2023.

Lexicon-based Sentiment Detection of Nepali-English Mixed Product Reviews, International Conference on Technologies for Computer, Electrical, Electronics & Communication, Bhaktapur, Nepal, 2023.

*Comparison of unsupervised algorithms applied to morpheme analysis for Nepali*, S. Basnet and S. Pandey, In Proc, 33rd Annual Conference of Linguistic Society of Nepal, Tribhuvan University, 2012.

*Morphological Analysis of Verbs in Nepali*, S. Basnet and S. Pandey, In proc. 30th Annual Conference of the Linguistic Society of Nepal, TU, Kirtipur, Nepal, 2009.

*Solving Maze Puzzles using Ant Algorithm*, S. Pandey and R. Shrestha, In proc. International Conference on SKIMA, Kathmandu, Nepal, Available: [https://drive.google.com/open?id=0B\\_B0Va\\_Cg\\_gbMHBXSmJkVUtaTkk](https://drive.google.com/open?id=0B_B0Va_Cg_gbMHBXSmJkVUtaTkk), 2008.

*Stochastic and Rule Based POS Tagger for Nepali*, S. Pandey, K. Sapkota and P. Shrestha, 12th Himalayan Language Symposium, Kathmandu, Nepal, Available: <http://www.slideserve.com/alyson/stochastic-and-rule-based-tagger-for-nepali-language>, November 2006.

*Development of the Politeness Planner for a Psychiatric Disorder Classification System*, S. Pandey and Y. Raj, In Proc. Conference on Software, Knowledge, Information Management and Applications, Chiang Mai, Thailand, Available: <http://eastwest.inf.brad.ac.uk/SKIMA%20Presentation/session%207/Politeness%20Planner%20for%20a%20Psychiatric%20Disorder%20Classification%20System.pdf>, December 2006, pp. 165-168.

*Efficient Information Retrieval using Measures of Semantic Similarity*, S. Pandey, K. Sapkota and L. Thapa, In Proc. Conference on Software, Knowledge, Information Management and Applications, Chiang Mai, Thailand, Available: [http://www.geocities.ws/shaileshpandeynec/skima/IR\\_Using\\_Semantic\\_Similarity\\_ready.pdf](http://www.geocities.ws/shaileshpandeynec/skima/IR_Using_Semantic_Similarity_ready.pdf), December 2006, pp. 94-98.

*Machine Translation of Programming (Artificial) Language into Natural Language*, S. Pandey, Y. Raj and S. Basnet, Research Notes in Proceedings of Contemporary Issues in Nepalese Linguistics, ISBN 99946-57-69-0, 2004, Available: <http://www.geocities.ws/shaileshpandeynec/skima/OnMachineTranslation.pdf>, pp. 463-470.

*XML Data Corpus: Report on methodology for collection, cleaning and unified representation of large textual data from various sources: news reports, weblogs, chat*, I. Klapaftis, S. Manandhar, S. Pandey, INDECT European Seventh Framework Programme Deliverable, INDECT Consortium (European Union), Available: [http://www.indectproject.eu/files/deliverables/public/INDECT\\_Deliverable\\_4.1\\_v20090630a.pdf/at\\_download/file](http://www.indectproject.eu/files/deliverables/public/INDECT_Deliverable_4.1_v20090630a.pdf/at_download/file), 2010.

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## Publications: Technology and Society

### Peer Reviewed Journal and Conference Articles

*Evolution of Nepal's ICT Policies: In the Lens of Document Analysis*, N. Regmi and S. Pandey. In D. Sinha, & S. Sharma (Eds.), *Digital Governance and Digital Politics in South Asia: Emerging Issues and Challenges*. Bloomsbury, 2024.

*Evolution of Nepal's ICT Policies: In the Lens of Document Analysis*, N. Regmi and S. Pandey. In *Proc. SJC Conference 2022*, St. Joseph's College, Darjeeling, 2022.

*Digital Inequality in Europe: Biological Diversity Measures to Study the Digital Divide*, N. Regmi and S. Pandey, Manuscript submitted for publication, 2022.

*Examining Nonprofit Organizations Long-term Use of Twitter* (Nepali translation), N. Regmi and S. Pandey, Book chapter in *Special Issue: Review of Civil Society's Work in Nepal in the Last 25 Years*, Publisher: Martin Chautari, 2021.

*Examining Nonprofit Organizations Long-term Use of Twitter*, N. Regmi and S. Pandey, 2021. [This is an extended English version of the Nepali article.]

*If you build it will they come? Exploring Narratives that Shape the Internet in Nepal*, S. Pandey and N. Regmi, *Science, Technology and Society* 25(3), 2020.

*Changing Connectivities and Renewed Priorities: Status and challenges facing Nepali Internet*, S. Pandey and N. Regmi, *First Monday*, 2017.

*Free Float Internet Policies of Nepal*, S. Pandey and Y. Raj, *Studies in Nepali History and Society (SINHAS)* 21(1): 1-60, 2016.

*A Regression Analysis into Nepali ICTs Energy Consumption and its Implications*, N. Regmi and S. Pandey, IEEE, Available: <http://dx.doi.org/10.1109/SKIMA.2015.7400034>, 2015.

#### **Peer Reviewed Research Briefs**

*Moving Beyond Access: The Landscape of Internet Use and Digital Inequality in Nepal*, Martin Chautari, Research brief 23, Available: [http://www.martinchautari.org.np/files/Research-Brief-23\\_English.pdf](http://www.martinchautari.org.np/files/Research-Brief-23_English.pdf), May 2018.

*Deliver through Mobiles First*, Martin Chautari, Research brief 18, Available: <http://www.martinchautari.org.np/files/ResearchBrief18ENGLISH.pdf>, 2016.

*Universal Connectivity in Nepal: A Policy Review*, Martin Chautari, Research brief 12, Available: [http://www.martinchautari.org.np/files/ResearchBrief12-UniversalConnectivityInNepal\\_APolicyReview.pdf](http://www.martinchautari.org.np/files/ResearchBrief12-UniversalConnectivityInNepal_APolicyReview.pdf), December 2014.

*Stakeholders for Universal Connectivity in Nepal*, Martin Chautari, Research brief 15, Available: <http://www.martinchautari.org.np/files/ResearchBrief15-StakeholdersForUniversalConnectivityInNepal.pdf>, April 2015.