

# Nihal V. Nayak

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ABOUT ME	<i>E-mail:</i> <a href="mailto:nnayak2@cs.brown.edu">nnayak2@cs.brown.edu</a> <i>Github:</i> <a href="https://github.com/nihalnayak">https://github.com/nihalnayak</a> <i>Languages and Frameworks:</i> Python, PyTorch, TensorFlow	
EDUCATION	<b>Brown University</b> , Providence, USA Ph.D. in Computer Science, GPA: 4.00 Sc.M. in Computer Science, GPA: 4.00	August 2019 - Present August 2019 - May 2021
	<b>M. S. Ramaiah Institute of Technology</b> , Bangalore, India B.E. in Information Science and Engineering, GPA: 8.96	August 2013 - May 2017
EXPERIENCE	<b>Brown University</b> , Providence, USA Advisor: Stephen H. Bach <i>Graduate Research Assistant</i> <ul style="list-style-type: none"><li>• Ongoing research on learning prompts with high-level knowledge for zero-shot learning in computer vision.</li><li>• Ongoing research on generating counterfactual data for zero-shot task answerability.</li><li>• Introduced <i>ZSL-KG</i>, a general-purpose zero-shot learning framework with a novel transformer graph convolutional network to learn zero-shot classifiers from common sense knowledge graphs. Outperforms existing graph-based methods on five out of six zero-shot benchmark datasets in fine-grained entity typing tasks, intent classification, and object classification [PDF] [Project].</li></ul>	August 2019 - Present
	<b>Stride.AI</b> , Bangalore, India <i>NLP Engineer</i> <i>Summer Intern</i> <ul style="list-style-type: none"><li>• Researched on low resource information extraction in financial domain. Improved the state-of-the-art performance for financial NER dataset by 5.8 accuracy points [AAAI-MAKE 2019].</li></ul>	November 2017 - May 2019 June 2016 - August 2016
	<b>Indian Institute of Science</b> , Bangalore, India Advisor: H. S. Jamadagni <i>Project Assistant</i> <i>Project Intern</i> <ul style="list-style-type: none"><li>• Developed a novel vocabulary flashcard application with a short answer grading algorithm [ACL SRW 2017].</li></ul>	August, 2017 - November, 2017 July 2015 - July 2017
SELECTED PAPERS (ORDERED BY RECENCY)	Wasu Piriyaikulij, Cristina Menghini, Ross Briden, <b>Nihal V. Nayak</b> , Jeffrey Zhu, Elaheh Raisi, and Stephen H. Bach. <b>TAGLETS: A System for Automatic Semi-Supervised Learning with Auxiliary Data</b> , <i>arXiv</i> , 2021 [PDF][Project]  Victor Sanh et. al., <b>Multitask Prompted Training Enables Zero-Shot Task Generalization</b> . <i>arXiv</i> , 2021 [PDF][Code]  <b>Nihal V. Nayak</b> and Stephen H. Bach. <b>Zero-Shot Learning with Common Sense Knowledge Graphs</b> . <i>Technical Report, 2020</i> [PDF][Code].	
HONORS AND AWARDS	Received Best Outgoing Student Award (2013 - 2017) from Department of Information Science and Engineering, M.S. Ramaiah Institute of Technology.  Received USD 2000 for winning the 2015 IEEE/IBM Watson Showcase (worldwide competition) [Article].	