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| EDUCATION               | <b>Georgia Institute of Technology</b> , Atlanta, GA<br><i>Ph.D. in Computer Science</i><br>Advised by Dhruv Batra and Zolt Kira<br>Aug 2023 - Present                                                                                                                                                                                              |
|                         | <b>Georgia Institute of Technology</b> , Atlanta, GA<br><i>M.S. in Computer Science</i><br>Advised by Dhruv Batra and Abhishek Das<br>May 2023                                                                                                                                                                                                      |
|                         | <b>Pune Institute of Computer Technology</b> , Pune, India<br><i>Bachelor of Engineering in Information Technology</i><br>May 2018                                                                                                                                                                                                                  |
| INTERNSHIPS             | <b>AI2</b> , Seattle, WA<br><i>Research Intern with Luca Weihs, Kuo-Hao Zheng, and Aniruddha Kembhavi</i><br>Exploring visual common sense reasoning for housekeeping robots.<br>May 2023 - Aug 2023                                                                                                                                                |
|                         | <b>Mitsubishi Electric and Research Laboratories</b> , Boston, MA<br><i>Research Intern with Anoop Cherian</i><br>Worked on indoor semantic navigation using scene graph representations for end-to-end learning.<br>May - Aug 2022                                                                                                                 |
|                         | <b>Machine Learning and Perception Lab, GT</b> , Atlanta, GA<br><i>Research Intern with Dhruv Batra, and Abhishek Das</i><br>Built Habitat-Web, infrastructure to collect human demonstrations for embodied tasks at scale.<br>Used it to scale training of indoor semantic navigation agents using IL and RL finetuning.<br>April 2020 - July 2021 |
| AWARDS                  | <b>Georgia Tech CoC Outstanding MS Researcher</b> (1 student from College of Computing) 2022<br><b>Runner up at Habitat Navigation Challenge</b> 2021, 2022                                                                                                                                                                                         |
| CONFERENCE PUBLICATIONS | [C3] <b>PIRLNav: Pretraining with Imitation and RL Finetuning for ObjectNav</b><br><b>R. Ramrakhya</b> , D. Batra, E. Wijmans, A. Das<br><i>IEEE Computer Vision and Patter Recognition (CVPR), 2023</i>                                                                                                                                            |
|                         | [C2] <b>Habitat-Matterport 3D Semantics Dataset</b><br>K. Yadav*, <b>R. Ramrakhya*</b> , S. Ramakrishnan*, T. Gervet, J. Turner, A. Gokaslan, N. Maestre, A. Chang, D. Batra, M. Savva, A. Clegg, D. Chaplot<br><i>IEEE Computer Vision and Patter Recognition (CVPR), 2023</i>                                                                     |
|                         | [C1] <b>Habitat-Web: Learning Embodied Object-Search Strategies from Human Demonstrations at Scale</b><br><b>R. Ramrakhya</b> , E. Undersander, D. Batra, A. Das<br><i>IEEE Computer Vision and Patter Recognition (CVPR), 2022</i>                                                                                                                 |
| WORKSHOP PAPERS         | [W4] <b>Curriculum Learning via Task Selection for Embodied Navigation</b><br><b>R. Ramrakhya</b> , D. Batra, A. Kembhavi, L. Weihs<br><i>Embodied AI Workshop, CVPR 2023</i>                                                                                                                                                                       |
|                         | [W3] <b>PIRLNav: Pretraining with Imitation and RL Finetuning for ObjectNav</b><br><b>R. Ramrakhya</b> , D. Batra, E. Wijmans, A. Das<br><i>Reincarnating Reinforcement Learning Workshop, ICLR 2023</i>                                                                                                                                            |
|                         | [W2] <b>Offline Visual Representation Learning for Embodied Navigation</b><br>K. Yadav, <b>R. Ramrakhya</b> , A. Majumdar, V. Berges, S. Kuhar, D. Batra, A. Baevski, O. Makysmets<br><i>Reincarnating Reinforcement Learning Workshop, ICLR 2023</i>                                                                                               |
|                         | [W1] <b>Habitat-Web: Learning Embodied Object-Search Strategies from Human Demonstrations at Scale</b><br><b>R. Ramrakhya</b> , E. Undersander, D. Batra, A. Das<br><i>Embodied AI Workshop (CVPR 2022), Overlooked Aspects of IL Workshop (RSS 2022)</i>                                                                                           |
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| PREPRINT        | <p>[P1] <b>OVRL-v2: Semantic Navigation without Semantic Mapping or Detection</b><br/> K. Yadav*, A. Majumdar*, <b>R. Ramrakhya</b>, A. Baevski, Z. Kira, O. Makysmets, D. Batra<br/> <i>arXiv preprint arXiv:2303.07798</i>, 2023</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                      |
| INVITED TALKS   | <p><b>Habitat-Web: Embodied Object-Search Strategies from Human Demonstrats at Scale</b><br/> <i>Overlooked Aspects of IL Workshop at RSS</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | June 2022                                                                            |
| WORK EXPERIENCE | <p><b>Glance</b>, Bangalore, KA<br/> <i>Software Development Engineer 2</i><br/> Built a content creation platform from scratch, built content extraction from web using heuristic based crawlers, and used image captioning models to automated content filtering at scale. The tool helps streamline creation of <b>~10,000</b> glance stories and saves <b>~150</b> hours of manual effort by each content designer monthly.<br/> Worked on optimizing large-scale data pipelines and content serving infrastructure, that serves <b>150</b> million users and ingests 10TB data every day to save <b>~20k\$</b> in monthly infrastructure cost.</p> <p><b>CloudCV</b>, Atlanta, GA<br/> <i>Open Source Organization Lead</i><br/> Led a team of <b>15+</b> collaborators to work on EvalAI, an open-source platform to create and participate in AI challenges. Collaborated closely with <b>30+</b> organizations including Meta, Google, Amazon, etc to host <b>200+</b> AI challenges for top tier AI conferences.</p> | <p>Jun 2018 - Jul 2021</p> <p>Jan 2021 - Jul 2022</p>                                |
| SIDE PROJECTS   | <p><b>Eval.AI</b> [<a href="https://github.com/Cloud-CV/EvalAI">github.com/Cloud-CV/EvalAI</a>]<br/> Platform to create, collaborate and participate in the AI Challenges organized around the globe.</p> <p><b>Fabrik</b> [<a href="https://github.com/Cloud-CV/Fabrik">github.com/Cloud-CV/Fabrik</a>]<br/> Collaborative platform to build, visualize and train deep learning models via a simple drag-and-drop interface.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <p>2020-2022</p> <p>2018-2020</p>                                                    |
| PROFESSIONAL    | <p><b>Workshop Organization</b><br/> Vision and Language Algorithmic Reasoning Workshop at ICCV</p> <p><b>Challenge Organization</b><br/> HomeRobot: Open Vocabulary Mobile Manipulation (OVMM) Challenge at NeurIPS<br/> Habitat Navigation Challenge 2023 at Embodied AI Workshop, CVPR<br/> Habitat Navigation Challenge 2023 at Embodied AI Workshop, CVPR</p> <p><b>Reviewing</b><br/> International Conference on Learning Representations (ICLR)<br/> Neural Information Processing Systems (NeurIPS)<br/> IEEE Robotics and Automation Letters (RA-L)</p> <p><b>Advising</b><br/> Gunjan Chhablani (MS Georgia Tech)</p>                                                                                                                                                                                                                                                                                                                                                                                              | <p>20223</p> <p>2023<br/>2023<br/>2022</p> <p>2023<br/>2023<br/>2023</p> <p>2023</p> |