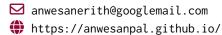
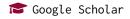
Anwesan Pal









Work Experience

Jun - Sep, 2018

Jan 2024 – · · · ·	Applied Scientist, AWS, Amazon.
Sep 2018 – Dec 2023	Graduate Research Assistant, Department of CSE, UC San Diego.
Jun – Sep, 2023	Applied Scientist Intern, Alexa AI-NU, Amazon.
Jun – Sep, 2022	Applied Scientist Intern, Alexa AI-NU, Amazon.
Jun – Sep, 2021	Research Intern, Android Pixel Camera, Google.

Education

2019 – 2023	Ph.D. in Computer Science and Engineering, UC San Diego. Dissertation title: <i>Hybrid semantic models for building smart and robust home robots.</i>
2017 – 2019	M.S. in Electrical and Computer Engineering, UC San Diego. Thesis title: Learning Application-Oriented Classifiers for Multi-frame Visual Recognition.
2013 – 2017	B.E. in Electrical Engineering, IIEST Shibpur. Thesis title: Fabrication of Prototype Apparatus for Control Systems Laboratory Experiment.

Summer Research Fellow, Department of ECE, UC San Diego.

Research Publications

Accepted

- **A. Pal**, R. Bhargava, K. Hinsz, J. Esterhuizen, and S. Bhattacharya, "The empirical impact of data sanitization on language models," in *Safe Generative AI Workshop at Neural Information Processing Systems (NeurIPS)* 2024, Vancouver, Canada, Dec. 2024.
- S. Iyer, A. Pal, J. Hu, A. Adeleye, A. Aggarwal, and H. I. Christensen, "Household navigation and manipulation for everyday object rearrangement tasks," in *International Conference on Robotic Computing (IRC)*, IEEE, Laguna Hills, CA, Dec. 2023.
- **A. Pal**, S. Wadhwa, A. Jaiswal, X. Zhang, Y. Wu, et al., "FashionNTM: Multi-turn Fashion Image Retrieval via Cascaded Memory," in *International Conference on Computer Vision (ICCV)*, IEEE/CVF, Paris, France, Oct. 2023.
- S. Madhavan, A. Pal, and H. I. Christensen, "Role of reward shaping in object-goal navigation," in Workshop on Embodied AI, Conference on Computer Vision and Pattern Recognition (CVPR), IEEE/CVF, New Orleans, LA, Jun. 2022.
- **A. Pal**, S. Mondal, and H. I. Christensen, "Looking at the right stuff guided semantic-gaze for autonomous driving," in *Conference on Computer Vision and Pattern Recognition (CVPR)*, IEEE/CVF, Seattle, WA, Jun. 2020.
- **A. Pal**, Y. Qiu, and H. I. Christensen, "Learning hierarchical relationships for object-goal navigation," in *Conference on Robot Learning (CoRL)*, Cambridge, MA, Nov. 2020.
- **A. Pal**, C. Nieto, and H. I. Christensen, "DEDUCE: Diverse scene detection methods in unseen challenging environments," in *International Conference on Intelligent Robots and Systems (IROS)*, IEEE/RSJ, Macau, China, Oct. 2019.

Ongoing



A. Pal, A. Padmakumar, X. Gao, G. Sukhatme, H. I. Christensen, et al., "Observe, Infer, and Act: Personalized helper agents for home-robot tasks," 2024.

Skills

Theory Non-linear optimization, Probability & Statistics, Linear algebra.

Coding Python, Matlab, C/C++, LTFX.

PyTorch, TensorFlow, Keras, Caffe, Simulink. Deep Learning

Operating Systems Linux, Windows, MacOS, Robot Operating System (ROS).

Strong reading, writing and speaking competencies in English, Hindi and Bengali. Languages

Academic research, teaching, consultation and publishing. Misc.

Miscellaneous Experience

Awards and Achievements

Awarded Graduate Fellowship for Doctoral study by the CSE Department at UC San Diego 2019

Awarded Summer Research Fellowship by the ECE Department at UC San Diego to con-2018 duct research in a laboratory environment

Only student in the batch to be a Teaching Assistant for a graduate-level course in the ECE 2017 Department in the first quarter in UC San Diego

Stood 2nd in WIRED-IN - the Electrical/Electronics Design contest held in INSTRUO 2015, 2014 technical festival of IIEST, Shibpur

Attained perfect CGPA of 10.0 (out of 10) in class X (top 5% in the nation). Received Schol-2011 arship and Letter of Recognition from Minister of Education, Govt. of India

Workshop Organization

2022 Co-organizer, Language Assisted Product Retrieval Challenge in the Instance-Level Recognition Workshop at ECCV'22

Reviewer Services

■ IEEE/CVF Conference on Computer Vision and Pattern Recognition 2024-

Student Reviewer at UCSD Dept. of CSE Doctoral Admission 2023-2024

2023-International Journal of Robotics Research

Springer Autonomous Robots

IEEE Transactions on Neural Networks and Learning Systems

IEEE Robotics and Automation Letters 2022-

IEEE International Conference on Robotics and Automation 2021-

IEEE/RSJ International Conference on Intelligent Robots and Systems 2020-

References

Henrik I. Christensen Gaurav Sukhatme Yue (Rex) Wu

Principal Applied Scientist Professor Professor Alexa AI Natural Understanding Department of CS & ECE

Department of CSE

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