Anwesan Pal

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https://anwesanpal.github.io/

Based on my internship evaluations, I have received **2** *inclined* votes for full-time L5 Applied Scientist role at Amazon. But due to the hiring freeze, I have not yet received an actual offer letter. Therefore, I am currently looking for full-time research/applied scientist positions in the domain of CV/ML with focus on vision-and-language models for real-world applications.

Work Experience

Sep 2018 – · · · ·	**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.
Jun – Sep, 2018	**Summer Research Fellow,** Department of ECE, UC San Diego.
May – Jul, 2016	**Research Intern,** Paris VIII University.
May – Jun, 2015	**Research Intern,** BITS Pilani Goa Campus.

Education

2019 – 2023 (expected) **Ph.D. in Computer Science and Engineering,** UC San Diego.
Thesis title: *Hybrid Semantic Models for Robust Robot Navigation.*

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.*

Research Publications

Accepted

1. **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.
2. 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.
3. **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.
4. **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.
5. **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

1. S. Iyer, **A. Pal**, J. Hu, A. Adeleye, A. Aggarwal, and H. I. Christensen, "Long-term navigation and manipulation for everyday household clean-up," 2023.
2. **A. Pal**, A. Padmakumar, X. Gao, G. Sukhatme, H. I. Christensen, *et al.*, "Observe, Infer, and Act: Personalized helper agents for home-robot tasks," 2023.

Skills

Theory	Non-linear optimization, Probability & Statistics, Linear algebra.
Coding	Python, Matlab, C/C++, LaTeX.
Deep Learning	PyTorch, TensorFlow, Keras, Caffe, Simulink.
Operating Systems	Linux, Windows, MacOS, Robot Operating System (ROS).
Languages	Strong reading, writing and speaking competencies in English, Hindi and Bengali.
Misc.	Academic research, teaching, consultation and publishing.

Miscellaneous Experience

Awards and Achievements

- 2019 Awarded Graduate Fellowship for Doctoral study by the CSE Department at UC San Diego
- 2018 Awarded Summer Research Fellowship by the ECE Department at UC San Diego to conduct research in a laboratory environment
- 2017 Only student in the batch to be a Teaching Assistant for a graduate-level course in the ECE Department in the first quarter in UC San Diego
- 2014 Stood 2nd in WIRED-IN – the Electrical/Electronics Design contest held in INSTRUO 2015, technical festival of IIEST, Shibpur
- 2011 Attained perfect CGPA of 10.0 (out of 10) in class X (top 5% in the nation). Received Scholarship 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

- 2023- Springer Autonomous Robots
- 2023- IEEE Transactions on Neural Networks and Learning Systems
- 2022- IEEE Robotics and Automation Letters
- 2021- IEEE International Conference on Robotics and Automation
- 2020- IEEE/RSJ International Conference on Intelligent Robots and Systems

References

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