

Preetam Dammu

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EDUCATION

Doctor of Philosophy, Information Science 2022 - Present

University of Washington, Seattle, Washington

- Advisor: [Prof. Chirag Shah](#)
- Recipient of the UW Top Scholar Fellowship

Master of Technology, Artificial Intelligence 2019

University of Hyderabad, Hyderabad, India

- Advisor: [Prof. Raju S. Bapi](#)
- Recipient of the Department's Gold Medal (1st Rank)

Bachelor of Technology, Computer Science & Engineering 2017

Sreenidhi Institute of Science & Technology, Hyderabad, India

- Graduated with Distinction
- Head of Android Development Club (ADC)

RESEARCH EXPERIENCE

Amazon Science June 2023 – Sep 2023

Applied Scientist II Intern

- Intern in AlexaShopping / Nile Research team.
- Projects focused on LLMs and Evidence Attribution in NLG.

UW iSchool Sep 2022 - Present

Graduate Research Assistant

- Member of [RAISE](#) and [InfoSeeking Lab](#).
- Research focused on AI Fairness, Explainability & Robustness.

TCS Research & Innovation Labs Aug 2019 – Sep 2022

Researcher

- Member of the "Secure and Private AI" research team
- Projects focused on solving security-related technological barriers to AI adoption.

Computational Intelligence Lab, UoH Sep 2017 – Sep 2019

Graduate Student Researcher

- Conducted research in the intersection of Cognitive Neuroscience and ML.
- Employed machine learning techniques to model and detect neurological disorders.

AREAS OF EXPERTISE

- Generative AI: Vision Language Models & LLMs
- Responsible AI: Explainability, Fairness, Robustness, Security & Privacy
- Information Retrieval
- Natural Language Processing
- Computer Vision

RESEARCH PUBLICATIONS

- 1) **Dammu** et al. "Fine-grained Evidence Attribution of Text Over Knowledge Graphs". *(Under Preparation)*.
- 2) **Dammu** et al. "Modeling Cultural Disalignment of Guardrails in Large Language Models". *(Under Preparation)*.
- 3) **Dammu** and Alonso. "Identifying Near-duplicate Questions using Zero-shot Learning". *(Under Review)*.
- 4) **Dammu** and Shah. "Detecting Spurious Correlations via Robust Visual Concepts in Real and AI-Generated Image Classification". *37th Conference on Neural Information Processing Systems (NeurIPS 2023), XAIA Workshop*. [Paper Link](#).
- 5) **Dammu**, Feng, and Shah. "Addressing Weak Decision Boundaries in Image Classification by Leveraging Web Search and Generative Models". *Proceedings of the Thirty-Second International Joint Conference on Artificial Intelligence (IJCAI 2023)*. [Paper Link](#).
- 6) **Dammu**, Chalamala, & Singh. "Explainable and Personalised Privacy Prediction". In *International Conference on Information and Knowledge Management Workshops (CIKM 2021)*. [Paper Link](#).
- 7) **Dammu**, Chalamala, Singh, & Bayya. "Interpretable and Robust Face Verification". In *International Conference on Information and Knowledge Management Workshops (CIKM 2021)* [Paper Link](#).
- 8) **Dammu**, & Bapi (2019, December). "Employing Temporal Properties of Brain Activity for Classifying Autism Using Machine Learning". In *8th International Conference on Pattern Recognition and Machine Intelligence (PReMI 2019)*. Springer, Cham. [Paper Link](#).
- 9) **Dammu**, & Bapi (2019, December). "Temporal Dynamics of the Brain Using Variational Bayes Hidden Markov Models: Application in Autism". In *8th International Conference on Pattern Recognition and Machine Intelligence (PReMI 2019)*. Springer, Cham. [Paper Link](#).

PATENT FILINGS

- 1) Method and System for Feature Based Image Retrieval
Inventors: **Dammu, P. P. S.**, Chalamala. S. R., & Singh, A.K.
Application Numbers – IP India: 202121021834, US PTO: 17/660,034
- 2) Systems and Methods for Constructing a Modular Siamese Network for Face Verification
Inventors: **Dammu, P. P. S.**, Chalamala. S. R., & Singh, A.K.
Application Numbers – IP India: 202121007953, US PTO: 17/358,496
- 3) System and Method for Explainable and Personalised Privacy Prediction
Inventors: **Dammu, P. P. S.**, Chalamala. S. R., & Singh, A.K.
Application Numbers – IP India: 202121049709, US PTO: TBD

AWARDS AND HONORS

- 1) Azure Cloud Computing Credits (Co-PI, Amount: \$10,000)
- 2) UW Top Scholar Award (Amount: 1 Quarter Funding & \$5,000)
- 3) Gold Medal – SCIS, University of Hyderabad

RELEVANT WORK EXPERIENCE

School of Computer and Information Sciences, UoH

Sep 2018- Sep 2019

Teaching Assistant to Prof. Raju S. Bapi

- Served as TA for two courses: (I) Pattern Recognition and (II) Neural Networks.

Kony, Inc.

Mar 2017- Jul 2017

Associate Software Engineer

- Worked in the R&D team of Kony Visualizer, a low-code application development platform.