

Priya Goyal

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US Citizen

[~71K citations](#)

ABOUT ME

I am a technical leader specializing in building the research and engineering foundations around increasingly capable Agentic AI systems: evaluation, synthetic data, reward signals, and feedback loops that turn model capabilities into reliable systems and scaling these foundational solutions across organizations.

EMPLOYMENT

LinkedIn CoreAI

Dec 2024 - Present, New York, NY

Founded and scaled LinkedIn Agentic Search from concept into a 50+ person, company-priority effort, architecting the end-to-end Agentic Evaluation framework (metrics, rubrics, agent-as-judge, high quality, synthetic data, human annotation, hill climbing loops, multi-turn evals) that underpins all agentic model training and launch-readiness decisions, while also leading company-wide NextGen AI Evaluation on behalf of the CTO and Chief AI Officer across Hiring Assistant, Feed, News, Sales Navigator, and Career Agents.

Datology AI, Founding Member of Technical Staff

Jan 2024 - Oct 2024, New York, NY

Led research on curating high-quality training data to match or exceed baseline model accuracy in roughly half the training time, building the company's data-quality research infrastructure and driving customer collaborations that produced more efficient, higher-quality language models.

Google Deepmind

Aug 2022 – Jan 2024, New York, NY

Started and led a moonshot project on multimodal personalization to uplift LLMs like Gemini with preferences derived from Google Photos, spanning fine-grained image segmentation research and bias/mitigation studies for multimodal models such as CLIP (ICLR'24).

Facebook AI Research, Meta MSL

Jan 2016 – Aug 2022, New York, NY

Tech-led internet-scale self-supervised learning research, producing the "ImageNet in 1 Hour" distributed training breakthrough, RetinaNet and Focal Loss (ICCV'17 best paper), the open-source VISSL library, and computer-vision fairness benchmarks (FAcCT 2022), accumulating 71K+ citations.

EDUCATION

Indian Institute of Technology (IIT) Kanpur

India, 2010 - 2015

Bachelor and Masters, Mathematics and Scientific Computing

M.Sc. Advisor: Prof. Harish Karnick

Thesis Title: Study of auto-encodings in the hidden units of deep neural networks.

GPA: 9.1/10 (Ranked 2 of 50 in graduating class).

RESEARCH INTERESTS

Agentic Eval: Agent-as-Judge and Fine-grained dynamic objective rubrics for subjective problems (consumer / enterprise).

Synthetic Agentic Data: High quality grounded synthetic data generation for agentic products.

Multimodal learning: learning with many modalities including text, images.

Computer Vision / Machine Learning: learning with limited supervision (from uncurated data).

Socially Responsible AI: diagnosing and mitigating harms, model privacy and robustness.

Large scale vision models: pushing the limits in terms of data and model scale.

PUBLICATIONS

- o *Clip the bias: How useful is balancing data in multimodal learnings?* - Ibrahim Alabdulmohsin, Xiao Wang, Andreas Peter Steiner, [Priya Goyal](#), Alexander D'Amour, Xiaohua Zhai, **ICLR'24**
- o *Vision Models Are More Robust And Fair When Pretrained On Uncurated Images Without Supervision* - Priya Goyal, Quentin Duval, Isaac Seessel, Mathilde Caron, Ishan Misra, Levent Sagun, Armand Joulin, Piotr Bojanowski, **arXiv 2022**
- o *Fairness Indicators for Systematic Assessments of Visual Feature Extractors* - Priya Goyal, Adriana Romero Soriano, Caner Hazirbas, Levent Sagun, Nicolas Usunier, **FAcCT, 2022**
- o *A Self-Supervised Descriptor for Image Copy Detection* - Ed Pizzi, Sreya Dutta Roy, Sugosh Nagavara Ravindra, Priya Goyal, Matthijs Douze, **CVPR 2022**

- o *Fully Sharded Data Parallel: faster AI training with fewer GPUs* - Myle Ott, Sam Shleifer, Min Xu, Priya Goyal, Quentin Duval, Vittorio Caggiano, **Facebook Engineering blog, 2021**
- o *VISSL: A library for state-of-the-art self-supervised learning from images* - Priya Goyal, Quentin Duval, Jeremy Reizenstein, Matthew Leavitt, Min Xu, Benjamin Lefaudeaux, Mannat Singh, Vinicius Reis, Mathilde Caron, Piotr Bojanowski, Armand Joulin, Ishan Misra, **2021**
- o *Self-supervised pretraining of visual features in the wild* - Priya Goyal, Mathilde Caron, Benjamin Lefaudeaux, Min Xu, Pengchao Wang, Vivek Pai, Mannat Singh, Vitaliy Liptchinsky, Ishan Misra, Armand Joulin, Piotr Bojanowski, **arXiv 2021**
- o *Unsupervised Learning of Visual Features by Contrasting Cluster Assignments* - Mathilde Caron, Ishan Misra, Julien Mairal, Priya Goyal, Piotr Bojanowski, Armand Joulin, **NeurIPS 2020**
- o *Scaling and Benchmarking Self-Supervised Visual Representation Learning* - Priya Goyal, Dhruv Mahajan, Abhinav Gupta*, Ishan Misra*, **ICCV 2019**
- o *The next 700 accelerated layers: From mathematical expressions of network computation graphs to accelerated gpu kernels, automatically* - Nicolas Vasilache, Oleksandr Zinenko, Theodoros Theodoridis, Priya Goyal, Zachary Devito, William S Moses, Sven Verdoolaege, Andrew Adams, Albert Cohen, **ACM TACO 2019**
- o *Focal Loss for Dense Object Detection* - Tsung-Yi Lin, Priya Goyal, Ross Girshick, Kaiming He, Piotr Dollár, **ICCV 2017 (best student paper award)**
- o *Accurate, Large Minibatch SGD: Training ImageNet in 1 Hour* - Priya Goyal, Piotr Dollár, Ross Girshick, Pieter Noordhuis, Lukasz Wesolowski, Aapo Kyröla, Andrew Tulloch, Yangqing Jia, Kaiming He, **arXiv 2017**

Tech Reports

- o Peer-to-peer insult detection in online communities - Priya Goyal, Gaganpreet Singh Kalra, 2013

WORKSHOP CHALLENGE

Facebook AI Self-Supervision Learning Challenge

ICCV, 2019

Extreme Computer Vision Workshop

Seoul, Korea

Organized the first ever [self-supervised challenge](#) aimed at benchmarking representation learning on a variety of tasks. Wrote the transfer learning code and set up the challenge evaluation/submission server.

INVITED TALKS

- o SEER, a self-supervised billion parameter computer vision model - [Facebook AI Innovation Summit, 2021](#)
- o Scaling and Benchmarking Self-Supervised learning – Carnegie Mellon University, April 2019.
- o Facebook North America Women in AI Leadership Summit, 2019 – 10K attendees.
- o ImageNet-1k training in 1 hour – Caffe2 Meetup, Hawaii, CVPR 2017
- o ImageNet in 1 hour – Deep Learning at Supercomputer Scale, NeurIPS 2017

MEDIA COVERAGE

- o [TechCrunch article on ImageNet in 1-Hour.](#)
- o [CNBC article on SEER \(training A.I. to "see"\).](#)
- o [NVIDIA Developer on ImageNet on 1-Hour.](#)
- o [Geekwire on ImageNet in 1-Hour.](#)
- o [NVIDIA Developer on Self-supervised learning beating SOTA Computer vision models.](#)
- o [WIRED article on AI Teaching Itself to See With Less Human Help.](#)
- o [CNET on training computers to learn like humans do.](#)
- o [ImageNet in 1-Hour at NeurIPS 2017 Supercomputing workshop.](#)

AWARDS

- o Best Student Paper Award, ICCV 2017.
- o Facebook Grace Hopper Scholarship, 2014 and Google Global Scholarship, 2013.
- o Academic Excellence Award 2011-12 and 2012-13 – given to the top 5% of 850 students.
- o Best Poster Award (amongst 60 posters) presented in SURGE, IIT Kanpur 2012.
- o SURGE undergraduate research fellowship (2012), Indian Institute of Technology (IIT), Kanpur, India.
- o National Talent Search Scholarship, 2008 – given to top 0.01% high school students all over India.

ACADEMIC SERVICE

Conference reviewer: Computer Vision and Pattern Recognition (2018 – 2022), International Conference on Computer Vision (2018 – 2022), European Conference on Computer Vision (2018 – 2022), International Conference on Learned Representations (2018 – 2022), International Conference on Machine Learning (2018 – 2022), Neural Information Processing Systems (2018 – 2022)

INTERNSHIPS

Facebook

May-August 2015

Advisor: Kay Rottmann, Juan Miguel Pino, Language Technology Team

Menlo Park, CA, USA

Built profanity detection classifier to detect profanity in the machine translations produced by Facebook. Built classifiers for all the languages and automated the re-training of any classifier.

Goldman Sachs

May–July 2014

*Advisor: Andrei Bergners, Panna Pavangadkar, Developer Practices Group**New York, US*

Built software for making the firm approved SDLC build cloud dynamic and self-aware. The product analyzes nearly 3000 product builds across the firm on a daily basis.

Yahoo!

May–July 2013

*Advisor: Bennet Manuel, Yahoo! Right Media Exchange**Bangalore, India*

Built visualization tool for tracking the usage of web bugs in online display ads to detect malicious vendors - helped increase the revenue of the company by curbing ban on minor defaulters.

Carnegie Mellon University Winter School

Dec 2012–Jan 2013

Advisor: Prof. Carolyn P. Rosé, Department of Computer Science, CMU

Develop an interactive tutor moderated chat system for automated analysis and dynamic support for an online collaborative learning process. Proposed and implemented 2-pass architecture model for modelling the students' conversation and building an agent prototype capable of detecting distraction/ confusion among students and providing necessary support to ensure effective learning.

Summer Undergraduate Research Grant for Excellence

May–July 2012

*Advisor: Prof. Akash Anan, Department of Mathematics and Statistics**IIT Kanpur, India*

Developed efficient algorithms for projecting the point cloud on the projection surface. Automated the process of 3-D surface generation.