Parag Ekbote

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EDUCATION

Dr. D. Y. Patil Vidyapeeth | Pune, India *Aug2023-Aug2027*

Bachelor of Technology in Artificial Intelligence & Data Science

- **Awards**: DPU Merit Scholarship (2023–24), DPU Short-Term Studentship Grant (2024–25)
- **GPA**: 9.1/10

SKILLS & TECHNICAL TOOLS

Languages: Python, SQL, PyTorch

Technologies: Hugging Face Transformers, PEFT, TRL, Diffusers, scikit-learn, Dagster, dbt, Pandas, Polars, NumPy, Docker, GitHub Actions, Git, Linux, FastAPI, Make, Quantization (bitsandbytes, TorchAO), Optuna, Weights & Biases

Cloud: AWS (S3, SageMaker, Lambda), Azure, GCP, Replicate

EXPERIENCE

Technical Reviewer |O'Reilly Media Pune, India| *July 2026 – Present*

- Reviewed technical accuracy of 3 book chapters covering modern LLM training.
- Validated code implementations and improved clarity across three chapters prior to publication by 20%.
- Delivered detailed feedback on correctness for author revisions, reducing revision cycle time by 15%.

Technical Reviewer | Manning Publications and Co. Pune, India| *Mar 2026 – Apr 2026*

- Audited Hugging Face PEFT and Transformers code across 4 manuscript chapters for technical accuracy.
- Identified implementation issues and improvements to code examples, driving a 17% improvement in example accuracy.
- Reviewed multiple manuscript chapters focusing on reproducibility and engineering best practices.

AI Research Intern |Green Pepper Pune, India | *Feb 2024 -Dec 2024*

- Surveyed 30+ research papers covering clinical NLP and multimodal vision-language models.
- Built reusable GenAI solution templates for RAG and prompt engineering, reducing pitch preparation time by 25%.
- Supported enterprise AI engagements through technical research, architecture evaluation and prototype development.

PROJECTS

dagster-hf-datasets| *Python, Dagster, Hugging Face Datasets*

- Built an open-source integration bringing Hugging Face Datasets into Dagster's asset-based orchestration, showcased in Dagster Community Showcase.
- Implemented dataset ingestion, transformations and automated publishing to Hugging Face Hub.
- Developed a high-throughput Parquet IO Manager supporting streaming and materialized datasets.

Efficient Model Serving | *Python, PyTorch, PEFT, Diffusers, Docker*

- Reduced image generation latency by up to 60% using dynamic LoRA adapter loading, featured in a HF blog.
- Built deployment pipelines for quantized LLMs using Docker, pytest and Replicate.
- Applied quantization and sparsity techniques to improve inference throughput while reducing GPU memory usage.

Open-Source Contributions | *Hugging Face, Optuna, Dagster, PyTorch*

- Contributed 110+ merged pull requests across 20+ open-source machine learning repositories.
- Added Trackio integrations across 5+ repositories, including ZenML and LlamaFactory ecosystems.
- Improved CI workflows, documentation and developer tooling across multiple ML projects.

PUBLICATIONS

Hyperparameter Optimization for Improved Mine Detection Using Machine Learning: A Methodical Analysis of Classification Techniques| DOI: 10.1109/InCoWoCo68239.2025.11407267

2nd IEEE International Conference for Women in Computing (InCoWoCo), 2025

INVITED TALKS

- Guest Lecturer, Teknikhögskolan - Learning Software Engineering Through Open Source (June 2026)
- Guest Lecturer, Pruna AI - Learning Software Engineering Through Open Source: A Maintainer's Perspective (May 2026)