

# Priya Sharma

Mumbai, India

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## Education

Indian Institute of Science (IISc)

PhD in Computer Science (Natural Language Processing)

Aug 2018 – Jul 2022 | Bangalore, India

CGPA: 9.7/10

Thesis: 'Cross-lingual Transfer Learning for Low-resource Indian Languages'

Activities: NLP Research Group Lead, Women in AI Mentor, Conference Reviewer

Relevant Coursework: Advanced Machine Learning, Computational Linguistics, Deep Learning for NLP, Information Retrieval, Statistical Methods, Speech Recognition, Language Models

Indian Institute of Technology, Delhi

Master of Technology in Artificial Intelligence

Jul 2016 – Jun 2018 | New Delhi, India

CGPA: 9.5/10

## Work Experience

Senior NLP Research Scientist | Microsoft Research | Aug 2022 – Present | Bangalore, India

- Led a team developing multilingual language models for 11 Indian languages, achieving state-of-the-art results on benchmark tasks.
- Implemented cross-lingual transfer learning techniques that improved performance by 35% for low-resource languages.
- Published 5 papers in top-tier NLP conferences (ACL, EMNLP, NAACL).

Research Intern | Google AI | Jan 2021 – Jun 2021 | Remote

- Researched techniques for efficient transformer models, reducing model size by 40% while maintaining 95% of performance.
- Developed methods for knowledge distillation in multilingual settings.
- Contributed to open-source NLP libraries for low-resource language processing.

## **Skills**

NLP: Transformers, BERT, RoBERTa, T5, GPT, Language Modeling, Named Entity Recognition, Machine Translation

ML/DL: PyTorch, TensorFlow, Hugging Face, JAX, scikit-learn, Keras

Languages: Python, Java, C++, R, Shell Scripting

Data Processing: Pandas, NumPy, Dask, PySpark, NLTK, spaCy

Cloud & Computing: AWS SageMaker, Google Vertex AI, Azure ML, CUDA, Distributed Training

Other: Research Methods, Technical Writing, Experiment Design, Model Evaluation, Ethics in AI

## **Certificates**

Coursera: Natural Language Processing Specialization

Hugging Face: Transformers for NLP

DeepLearning.AI: Sequence Models

## **Awards**

Outstanding Paper Award - Association for Computational Linguistics (ACL) 2023

Google PhD Fellowship in Machine Learning

Best Thesis Award - Indian Institute of Science