Anjali **Sarawgi**

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📍 Munich, Germany

Education

Apr 2023 **Present**	**Ludwig Maximilian University (LMU), Munich | Institute for Statistics** M.Sc. in Statistics and Data Science (Track: Machine Learning)	**Munich, Germany**
Jun 2018 **May 2021**	**CHRIST (Deemed to be University) | Department of Mathematics** B.Sc. (Economics, Mathematics, Statistics)	**Bangalore, India**

Experience

Present **Jul 2025**	**Fraunhofer AISEC | Institute for Applied and Integrated Security** [🌐] *Master Thesis Student | Advisors: Johanna Baehr, Prof. Dr. David Rügamer* Working on exploring and adapting graph neural networks (GNNs) for detecting subcircuits in cryptographic hardware circuits.	**Munich, Germany**
Dec 2024 **Jul 2025**	**Heidelberg University | South Asia Institute** [🌐] *Consulting Project (Master's Project) | Advisors: Esteban Garces Arias, Dr. Christof Zotter* Developed the first transformer based handwritten text recognition (HTR) model for low-resource 18th and 19th century Old Nepali manuscripts with 95.1% character accuracy.	**Heidelberg, Germany**
Sep 2025 **Oct 2024**	**Institute for Statistics | LMU, Munich** [🌐] *Research Student | Mentor: Prof. Dr. Thomas Augustin* Assisted with lecture material preparation for Statistical Inference Course (Bachelor's program), corrected student papers, and helped with literature searches and preparing supporting research materials.	**Munich, Germany**
Mar 2025 **Oct 2024**	**Psychological Methodology and Diagnostic | LMU, Munich** [🌐] *Research Student | Mentor: Dr. Yannik Terhorst* Worked on statistical analysis and statistical modeling for a meta-analysis of PTSD research, and feature engineering of mobile sensing data (Phone Study Project) to detect depression patterns from user behaviour.	**Munich, Germany**
Sep 2024 **Mar 2024**	**Bavarian AI Chair of Mathematical Foundations of AI | LMU, Munich** [🌐] *Research Student | Mentor: Sohir Maskey, Prof. Dr. Gitta Kutyniok* Worked with Graph Neural Networks (GNNs) to (1) visualize loss landscapes to understand model behaviour using dimensionality reduction methods and, (2) implement experiments to study double descent phenomenon for benchmarked graph data and GNNs.	**Munich, Germany**
Jan 2023 **Nov 2022**	**Bask Solution LLC** *Web Development Intern* Designing and building an AI-powered conversational food delivery web app with Python and React JS	**Kathmandu, Nepal**
Sep 2022 **Jul 2021**	**Deloitte USI** *Associate Analyst | Consulting (Strategy and Analytics) - AI and Data Engineering* Worked on building and maintaining Master Data Management (MDM) pipelines for a global pharmaceutical client, implementing data validation, deduplication, and integration pipelines using SQL and Informatica MDM (ActiveVOS) to ensure data quality.	**Bangalore, India**

Publications

[3] **Digitizing Nepal's Written Heritage: A Comprehensive HTR Pipeline for Old Nepali Manuscripts**
Anjali Sarawgi, Esteban Garces Arias, Christof Zotter
[Under Review]

[2] **The relation between passively collected data and PTSD: a systematic review and meta-analysis**
Ningzhe Zhu, Anjali Sarawgi, Markus Bühner, Harald Baumeister, Patricia Garatva, Thomas Ehring, Yannik Terhorst
npj Digital Medicine, [DOI: 10.1038/s41746-025-01825-6]   [**Nature Portfolio, 2025**]

[1] **Environmental cost of food wastage: Integrated response through a mix of environmental policy instruments**
Pratyush Jain, Anjali Sarawgi, Pragati Jain
Sustainable Development, [DOI: 10.1002/sd.2522]   [**Wiley, 2023**]

Talks

"AI for South Asian Language Preservation: Nepali and Hindi"

> Manuscriptology and Digital Humanities Online Lecture Series   October 2024   (Heidelberg University, Germany)

Skills

Technical Skills: Python (Advanced), R Programming, SQL, Git, PyTorch/Pytorch Geometric, Google Cloud Platform (GCP), Docker, ReactJS, Django, FastAPI, LaTeX, Informatica MDM

Training Course: Python with Django (Advanced), IT Training Nepal, 2022

Additional

Languages: English (Fluent), German (A2, learning), Nepali (Native), Hindi (Fluent)

Awards: Spot Award (Deloitte USI, 2022), Mathematics Prize (Bishop Cottons Girl's School, India, 2018)