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Debodeep94

Debodeep Banerjee

Objective

A data scientist with research interests in statistical inference, machine learning, and AI — particularly in healthcare applications — with additional focus on NLP, data visualization, and hybrid AI systems.

Areas of Interest

- Natural Language Processing
- Data Visualization
- Hybrid Artificial Intelligence

Education

2022–Present **PhD in Artificial Intelligence**, *University of Pisa & University of Trento*

2022 **Master in Data Science**, *Sapienza University of Rome*

2018 **M.Sc. in Statistics**, *University of Madras*

2016 **B.Sc. in Statistics (Hons)**, *Asutosh College, University of Calcutta*

Work Experience

06/2022–10/2022 **Intern**, *Project Consulting SRL*, AI in video analysis

07/2021–01/2022 **AI Intern**, *Baker Hughes*, Deep learning on turbomachinery data

05/2018–08/2018 **Subject Matter Expert (Statistics)**, *SPI Global Private Ltd.*

05/2017–06/2017 **Research Intern**, *Indian Statistical Institute*
Data analysis using bootstrapping and logistic regression.

Publications

[Under review] **Banerjee, Debodeep, et al. "Learning to guide human decision makers with vision-language models."**

[Preprint] **Banerjee, Debodeep, et al. "MedGellan: LLM-Generated Medical Guidance to Support Physicians."**
Workshop on Hybrid Human-Machine Learning and Decision Making (HLDM'25) @ ECMLPKDD 2025

Presentations

2018 International Conference on Theory and Application of Statistics and Information Science – Bayesian analysis of $1 \times j$ contingency table

2018 National Conference at Marian College – CSR and Sustainable Development in India

Research Projects

Master in Data Science
Title: Nonparametric Modal Regression for Directional Responses
Supervisor: Prof. Pierpaolo Brutti
Developed EM-based modal regression algorithm for directional predictors and linear responses.

M.Sc. Statistics
Title: A Study on Classical Inference on Single Binomial Proportion
Supervisor: Dr. Subbiah M.
Focused on evaluating confidence intervals using coverage probability and expected run length.

Technical Report

2017–2018
Title: Comparative Analysis of Two 1×j Contingency Table under Bayesian Perspective
Authors: Debodeep Banerjee, Trina Sahoo, Dr. Subbiah M., Dr. M.R. Srinivasan
Published in University of Madras Library, used R and Monte Carlo simulation techniques.

Technical Skills

Languages	Python, R
Tools	Minitab, SPSS, SQL, Power BI (Beginner), LaTeX
Office Suite	MS Word, Excel, PowerPoint, Access

Achievements

1 First place in Inter-Departmental Quiz, University of Madras
2 First place in Inter-Collegiate Quiz, Madras Christian College

Languages

Fluent	Bengali, Hindi, English
Basic	Italian