

Aditya Shankar

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Google Scholar: [link](#)

Research Interests

Diffusion Models · Generative Modeling · Time Series · Tabular data · Federated Learning

Education

Ph.D. in Computer Science <i>Delft University of Technology</i> Topic: “Generative Modelling for Structured Data Generation” Advisors: Drs. Lydia Chen, Rihan Hai, and Arie van Deursen	2023 – Present <i>Delft, The Netherlands</i>
M.Sc. in Computer Science <i>Delft University of Technology</i> Grade: Cum Laude, Coursework: 8.67/10, Thesis: 9.0/10	2021 – 2023 <i>Delft, The Netherlands</i>
B.Tech. in Computer Science and Engineering <i>Manipal Institute of Technology</i> Grade: 9.25/10	2017 – 2021 <i>Manipal, India</i>

Other Research/Industry Experience

Masters Thesis Intern <i>ASML / Delft University of Technology</i> Topic: “Share Secrets for Confidential Forecasting with Vertical Federated Learning” Advisors: Drs. Jérémie Decouchant, Lydia Chen, Dimitra Gkorou	Dec. 2022 – Aug. 2023 <i>Delft, The Netherlands</i>
Research Intern <i>Distributed Systems Group / Delft University of Technology</i> Topic: “Federated Continual Learning” Advisors: Drs. Jérémie Decouchant, Lydia Chen	July – Sept. 2022 <i>Delft, The Netherlands</i>
Bachelor Thesis Intern <i>Indian Institute of Science (IISc)</i> Topic: “Performance Evaluation of Pipeline Parallelism for Neural Networks” Advisors: Dr. R. Govindarajan	Jan – May 2021 <i>Bangalore, India</i>
Project Intern <i>reference labs</i> Topic: “Parser for Translating Natural Language Queries for Medical Research” Advisors: Dr. Rakesh Barve, Akash Anand	May – July 2019 <i>Bangalore, India</i>

Selected Publications

- Aditya Shankar**, Yuandou Wang, Rihan Hai, Lydia Chen “Harpoon: Generalised Manifold Guidance for Conditional Tabular Diffusion” *Conference (ICLR)*, 2026. OpenReview
- Aditya Shankar**, Lydia Chen, Arie van Deursen, Rihan Hai “WaveStitch: Flexible and Fast Conditional Time Series Generation with Diffusion Models”, (*ACM SIGMOD*), 2026. ArXiv
- Aditya Shankar**, Hans Brouwer, Rihan Hai, Lydia Chen “SiloFuse: Cross-silo Synthetic Data Generation with Latent Tabular Diffusion Models”, (*IEEE ICDE*), 2024. ArXiv

Patents

- Aditya Shankar**, Dimitra Gkorou, Jérémie Decouchant, Satej Khedekar, Lydia Chen. “Vertical Federated Learning for Configuring a Semiconductor Manufacturing Process.” WO2025040320A1, 2025.

Teaching & Mentorship

- TA, Distributed Machine Learning, University of Neuchâtel (2024), Delft University of Technology (2023)
- MSc thesis supervisor: Julio Vega Sanchez (2024), Arnob Chowdhury (2025), Lorenzo Sibi (2026, ongoing)
- Intern supervision: Shivaani Hari (2024, IIT Delhi), Saul Sanchez & Abdelrahman Faqieh (University of Bern (ongoing))

Service / Volunteering / Reviewing

- Reviewer NeurIPS (2026), RecSys (2025, 2026), IEEE TPDS (2024), TKDD Journal (2026)
- Volunteer *ECIR* 2026, Delft, The Netherlands
- Publicity Chair, *DBML @ ICDE* 2025, Hong Kong, China
- Volunteer, *ICDE* 2024, Utrecht, The Netherlands