Snipta Mallick

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EDUCATION

The University of Texas at Austin Expected: Summer 2026
M.S. Artificial Intelligence *GPA: 4.0*

The University of Texas at Dallas May 2022
B.S. Computer Science & B.S. Cognitive Science *GPA: 3.8/4.0*

PROFESSIONAL EXPERIENCE

National Institutes of Health (NIH), Office of Data Science Strategy | *Data Scientist*   May 2022 – Present
- Advanced healthcare data exchange and clinical interoperability initiatives across multiple NIH institutes by consulting with program leadership and contractors to promote the adoption of FHIR, OMOP, and CDEs.
- Led American Medical Informatics Association (AMIA) award-winning FHIR Training, designing and delivering data and analytics projects using R, Python, GCP, AWS, and Azure in 10 workshops for 100+ NIH researchers
- Organized a high-impact Common Data Elements (CDE) workshop for 700+ attendees, leveraging strong communication and presentation skills to coordinate speakers, sessions, and outreach, earning a Special Act Award
- Developed Python scripts, Excel, and SQL queries to analyze internal grant data, providing data-driven insights to leadership and Congress that informed strategic funding decisions and demonstrated business acumen
- Reviewed and evaluated 15+ AI and data science funding proposals across NIH institutes, assessing technical feasibility and strategic alignment to NIH's data science and clinical interoperability goals
- Directed the redesign of the ODSS Clinical Informatics website using Figma, leading cross-functional teams and utilizing strong leadership and interpersonal skills to enhance site engagement by 200% and improve user experience
- Published 15+ Notice of Funding Opportunities (NOFOs) as NIH Liaison for the Office of Extramural Research (OER), collaborating across divisions to align funding strategies with NIH's research and data science priorities
- Mentored and trained junior staff in data and analytics tools like Python, R, Tableau, and Power BI, fostering skill development and ensuring high-quality project deliverables in a fast-paced, dynamic environment
- Completed COR I certification, OPA portfolio analysis training, RFI tool training, and five caDSR sessions, demonstrating adaptability and proactive skill development to manage federally funded contracts effectively

NIH, Office of Data Science and Emerging Technologies | *Data Scientist Fellow*   May 2021 – Aug 2021
- Streamlined the funding application management process by developing an data pipeline to categorize 10,000+ NIAID-funded data science proposals using AI methods, reducing manual review time and improving efficiency
- Developed an NLP text classification tool using Python (Pandas, Scikit-learn) to automate the categorization of NIH grants, achieving 94%+ accuracy, significantly reducing time required for reviewers to evaluate funding priorities
- Created the first interactive data visualization dashboard to analyze and present $9+ billion in data science grants, empowering agency leadership to identify funding trends and effectively report key insights to Congress

Microsoft | *Software Engineering Intern*   May 2020 – Dec 2020
- Developed production-level C++ profiling tools and scripts for 5G telecommunications infrastructure, building real-time performance monitoring dashboards on Prometheus to monitor live, global, kubernetes-managed clusters
- Resolved 30+ technical bugs in production code, improving system performance and stability. Authored detailed technical publications for developers and customers, and provided regular progress updates in daily stand-ups

PUBLICATIONS AND PRESENTATIONS

Mallick, S., Tsang, S., Masnick, M., Persing, N., & Seto, B. 2024. FHIR-ing Up Clinical Research: Developing Modular and Reusable FHIR® Trainings for IDeA State Institutions. In Proc. 2024 AMIA Annual Symposium

Mallick, S., Jeckeln, G., Parde, C. J., Castillo, C. D., & O'Toole, A. J. 2022. The Influence of the Other-Race Effect on Susceptibility to Face Morphing Attacks. ACM Transactions on Applied Perception https://doi.org/10.1145/3618113

Kalita, A., et al. 2023. Private pharmacies as healthcare providers in Odisha, India: analysis and implications for universal health coverage. BMJ Global Health, **Acknowledged for data analysis contributions to research study.**

Mallick, S., Benjamin, C. E., Luzuriaga, M. A., and Gassensmith, J. J. 2019. Ultra-Stabilization of Green Fluorescent Protein (GFP) using Metal-Organic Frameworks (MOFs) for Gold Sensing Applications. Presented at ACS-Dallas Fort Worth Meeting in Miniature, 52nd Session, 2019.

Luzuriaga, M. A., Benjamin, C. E., Gaertner, M. W., Lee, H., Herbert, F. C., **Mallick, S.**, and Gassensmith, J. J. 2019. ZIF-8 Degrades in Cell Media, Serum, and Some-But Not All-Common Laboratory Buffers. Supramolecular Chemistry.

Work Authorization: U.S. Citizen