## **Aryan Sharma**

<ul> <li>University of Michigan, Masters in Data Science ☑</li> <li>Course Highlights: Machine Learning, Large Language Models, Data Manipulation and</li> </ul>	08/2023 – present Ann Arbor, US
Analysis.	
<ul> <li>PES University, Bachelor of Technology in Computer Science and Engineering ☑</li> <li>GPA: 3.28/4.0</li> <li>Course Highlights: Machine Learning, Statistics for Data Science, Cloud Computing, Big Data, Data Analytics, Database Management System.</li> <li>Awards/Honors: Prof. M R Doreswamy Merit Scholarship for excellent academic performance.</li> </ul>	08/2019 – 06/2023 Bengaluru, IN
Professional Experience	
<ul> <li>Amazon, Software Development Engineer Intern ☑</li> <li>Implemented a distributed lock mechanism in the AWS Batch Scheduler for the customer's namespace, which helped prevent completely blocking job queues and ensured accurate calculation of vCPUs by avoiding multiple scheduler assignments during grey failures.</li> <li>Enhanced the robustness of the AWS Batch Scheduler by adding detailed monitoring metrics for tracking the bootstrapping process of all Managers in the AWS Batch Scheduler, providing visibility into each stage.</li> </ul>	05/2024 – present Seattle, US
<ul> <li>University of Michigan, Graduate Student Instructor - Statistics 250 - Introduction to Statistics and Data Analysis ☑</li> <li>Led and facilitated engaging discussion sections for large lecture courses, resulting in a 20% increase in student participation and comprehension.</li> <li>Designed and graded assessments, providing constructive feedback to promote students' academic growth in laboratory sections and Office Hours.</li> </ul>	01/2024 – 05/2024 Ann Abor, US
<ul> <li>Genpact, Data Scientist ☑</li> <li>Spearheaded the creation of data-driven dashboards and conducted in-depth trend analysis on key performance indicators, resulting in a 30% reduction in customer churn and a 25% increase in average order value.</li> </ul>	02/2023 – 08/2023 Bengaluru, IN
<ul> <li>PES University, Teaching Assistant - Statistics for Data Science ☑</li> <li>Orchestrated interactive classroom sessions, delivering curriculum-based problem-solving activities to engage students; achieved a 25% increase in participation and improved academic performance by 15%.</li> <li>Facilitated dynamic, interactive sessions to enable undergraduates to apply theoretical concepts learned in class, resulting in a 25% increase in comprehension and application of course material.</li> </ul>	06/2022 – 11/2022 Bengaluru, IN
<ul> <li>Smarthub.ai, Data Analyst ☑</li> <li>Developed and implemented a machine-learning model for TVS Motors' Paint Optimization Project, resulting in a 98% reduction in paint runoff, resulting in significant cost savings and environmental impact.</li> </ul>	06/2022 – 10/2022 Bengaluru, IN
<ul> <li>Skan.ai, Data Science Intern ☑</li> <li>Implemented a process similarity matrix to identify and analyze anomalous data patterns; enabled the company to streamline sequential processes, leading to a 30% reduction in operational bottlenecks and a 20% improvement in overall productivity.</li> </ul>	06/2021 – 08/2021 Bengaluru, IN

## **Publications**

## RtTSLC: A Framework for Real-Time Two-Handed Sign Language Translation, 2023 Springer, DOI: https://link.springer.com/chapter/10.1007/978-981-99-0769-4 62 ☑ • Conceptualized a framework for Real-Time Two-Handed Sign Language Translation in Indian Sign Language (ISL); showcased research results at the internationally recognized International Conference on Smart Trends in Computing and Communications. Sign Language Translation Systems: A Systematic Literature Review, 2022 IGI-global, DOI: https://www.igi-global.com/gateway/article/311448 ☑ • Surveyed Literature on Translation Systems by reviewing and summarizing more than 200 research papers and articles. • Published in IGI Global an international academic publisher. Cardiac anomaly detection models for wearable devices, 2021 Student Research Symposium (SRS) Developed an architecture for a wearable device for classifying 2-lead ECG signals with 98% accuracy. • Poster accepted at 13th HiPC Student Research Symposium (SRS),28th IEEE International Conference on High-Performance Computing, Data, & Analytics that was held in Bengaluru, IN. **Projects** RealSign: Real-Time Instantaneous Bi-Directional Sign Language Interpretation, 02/2022 - 06/2023 **Capstone Project** • Developed and deployed an innovative application software utilizing AI and computer vision technologies to facilitate bi-directional real-time translation of Indian Sign Language (ISL) into speech/text and vice versa, improving accessibility for

## Skills

the hearing impaired community.

with 98% accuracy.

**Machine Learning:** TensorFlow, Keras, PyTorch, NumPy, Pandas, **Data Visualisation/Business Insights:** Power BI, Tableau, **SQL:** pymongo, mongoDB, **Programming:** Python, R, C/C++, JAVA, **MATLAB** 

08/2021 - 12/2021

**ECG Classification**, CHIPS (Centre for Heterogeneous and Intelligent Processing Systems)

• Developed a TensorFlow-Keras machine learning model to classify 2 lead ECG signals