

Aryan Sharma

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Education

University of Michigan

Masters in Data Science

Ann Arbor, MI

Aug. 2023 - Present

- Course Highlights: Machine Learning, Statistics for Data Science, Big Data, Data Analytics, Database Management System.

PES University

Bachelor of Technology in Computer Science and Engineering

Bengaluru, KA

June 2023

- GPA: 3.28/4.0
- Course Highlights: Machine Learning, Statistics for Data Science, Cloud Computing, Big Data, Data Analytics, Database Management System.
- Awards/Honors: Prof. M R Doreswamy Merit Scholarship for excellent academic performance.

Relevant Experience

Genpact

Data Scientist

Bengaluru, KA

Feb. 2023-Aug. 2023

- Developed dashboards and analyzed trends in Key Performance Indicators to convey Business insights.

Statistics for Data Science

Teaching Assistant

Bengaluru, KA

June. 2022-Oct. 2022

- Conducted curriculum-based classroom sessions where students engage in solving problems.
- Assisted the classroom teachers by facilitating hands-on sessions for assisting undergrads to apply the theory covered in the lessons.

Smarthub.ai

Data Analyst Intern

Bengaluru, KA

June. 2022-Oct. 2022

- Contributed to a Paint Optimization Project for TVS motors by developing a machine-learning model to the reduce rundown of paint by 98%.

Skann.ai

Data Science Intern

Bengaluru, KA

June. 2021-Aug. 2021

- Detected anomalous data by building a process similarity matrix which helped the company find sequential processes.

DeepLearning.ai

Machine Learning Coursework

2020-2021

- Completed courses on **Structuring Machine Learning Projects**, **Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization** and **Neural Networks and Deep Learning** by Andrew Ng.

Projects

Capstone Project

RealSign: Real-Time Instantaneous Bi-Directional Sign Language Interpretation.

Feb. 2022-June. 2023

- Developed an application software that helps with bi-directional real-time translation of Indian Sign Language (ISL) into speech/text and vice versa.

CHIPS (Centre for Heterogeneous and Intelligent Processing Systems)

Bengaluru, KA

ECG Classification

Aug. 2021-Dec. 2021

- Developed a TensorFlow-Keras machine learning model to classify 2 lead ECG signals with 98% accuracy.

Research

RtTSLC: A Framework for Real-Time Two-Handed Sign Language Translation

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 for Indian Sign Language (ISL).
- Published in **International Conference on Smart Trends in Computing and Communications**.

Sign Language Translation Systems: A Systematic Literature Review

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

- 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, India.

Additional

- **Technical Skills:** Python (TensorFlow, Keras, NumPy, Pandas), MATLAB, SQL (pymongo) and MongoDB, C, C++, JAVA.
- **Activities:** Participated in multiple state and district-level tournaments for skating and table tennis.
- **Interests:** Football, Table Tennis, Reading Philosophy books, Anime.