

# Aryan Sharma

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## Education

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### 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

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### 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 Paint Optimization Project for TVS motors by developing a machine learning model to 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

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### 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

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### **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](https://link.springer.com/chapter/10.1007/978-981-99-0769-4_62)

- Conceptualized a frame 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 signal 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 at Bengaluru, India.

## Additional

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- **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.