

# ISHANI ARYA

[iarya1@jh.edu](mailto:iarya1@jh.edu) | +1 (443) 226-0240 | [linkedin.com/in/ishani-arya](https://www.linkedin.com/in/ishani-arya) | [github.com/ishani2202](https://github.com/ishani2202) | [ishani-arya.netlify.app](https://ishani-arya.netlify.app)

## EDUCATION

---

JOHNS HOPKINS UNIVERSITY | Baltimore, MD | CGPA: NA/4

**Master of Science in Engineering in Data Science** | Expected: May 2026

Relevant courses: Machine Learning, Advanced Data Science, Machine Translation, Statistical Methods & Probability

LM THAPAR SCHOOL OF MANAGEMENT | Patiala, India | CGPA: 3.42/4

**Masters of Business Administration** | June 2024

Relevant courses: Financial Derivatives & Risk Management, Financial Management, Big Data Management, Business Analytics

THAPAR UNIVERSITY | Patiala, India | CGPA: 3.20/4

**Bachelors of Technology in Computer Science** | June 2023

Relevant courses: Deep Learning, Mathematics in ML, Probability and Statistics, Data Structures, Design and Analysis of Algorithm

## EXPERIENCE

---

**Data Science Trainee | LG Electronics** | Noida, India | February 2024 – July 2024

- Designed & implemented **web scraping pipelines** using **Selenium and BeautifulSoup** to extract Voice of Customer data from YouTube and Flipkart, enabling actionable insights that enhanced product development strategies
- Implemented advanced NLP techniques by fine-tuning **BERT** for sentiment analysis and applying **LDA for topic modeling**, revealing key customer sentiments and trends

**Machine Learning Intern | Videolytical Systems** | Remote | August 2023 – September 2023

- Developed comprehensive video analytics system that utilized **YOLO** for precise object detection and **Optical Flow** for accurate motion tracking, leading to 30% enhancement in real-time intrusion detection capabilities

**Data Science Intern | Reliance Jio** | Mumbai, India | June 2023 – July 2023

- Developed scalable ETL pipeline using **Apache Spark** for processing over **1 million tweets**, integrating **MongoDB** for efficient storage and retrieval of unstructured data
- Analyzed customer engagement patterns and created visualizations using **Tableau** to present insights to stakeholders, which informed data-driven marketing strategies and contributed to **15% increase** in campaign effectiveness

**Machine Learning Researcher | Thapar University** | Patiala, India | June 2022 – May 2023

- Developed automated waste classification bot using **ResNet and TensorFlow**, achieving 93.07% accuracy in real-time waste classification (biodegradable vs. non-biodegradable) on Raspberry Pi with integrated servo motors for autonomous sorting
- Implemented Raspberry Pi system using **GPIO and Pygame** for real-time image capture and processing, integrating TensorFlow-based image classification model to classify images from live camera input

## SKILLS

---

- Programming Languages: Python, SQL, R, C++
- Technical Skills and Tools: Data Filtration (NumPy, Pandas, OS, Scikit-learn, SciPy, Datasets, LIWC, NLTK), Web Scrapping (BeautifulSoup, Requests), Model Building and Training (PyTorch, Transformer, Wandb, SageMaker, SpaCy, Flair, TensorFlow, OpenCV, Amazon Lex), Data Visualization (Matplotlib, Seaborn)
- Competencies: Machine Learning, Generative AI, Feature Engineering, Deep Learning, Data Analysis, Financial Derivatives
- Soft Skills: Communication, Leadership, Time Management, Problem Solving, Innovation

## COURSES AND CERTIFICATIONS

---

- Deep Neural Network with PyTorch, IBM, Learning from Coursera, March 2024
- LangChain Chat with Your Data Project, DeepLearning.AI, from Coursera, Jan 2024
- Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning by deeplearning.ai, Aug 2022

## EXTRACURRICULAR ACTIVITIES

---

- Selected for the Millennium Fellowship'21, United Nations Academic Impact, New York
- Head of Administration, International Association for Exchange of Students for Technical Experience (TIET, India Chapter)
- Top 5 Finalist at Microsoft Learn Student Chapter hackathon- Makathon'22 at Thapar University, Patiala
- Winner of 2 All India Tennis Association (AITA) tournaments (Under 16 Girls) & Captain of the Lawn Tennis Team at TIET, Patiala