

# Aryaman

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## EDUCATION

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- **Manipal Institute of Technology** 2020-2024  
*Data Science and Engineering* Grade: 8.26
- **Delhi Public School** 2020  
*CBSE XII - PCM & Fine Arts* Grade: 92.2%

## EXPERIENCE

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- **Manipal Institute of Technology** 09/2023 - Present  
*Teaching Assistant* Manipal
  - Assisting MCA 1st-year students with their DBMS lab, providing guidance, and supporting MySQL skill development.
- **Open Weaver** 09/2022 - Present  
*Digital Marketing Intern* Remote
  - Developed clear and concise technical documentation, user guides, and tutorials to facilitate understanding of different libraries under various languages.
  - Conducted in-depth research on complex technical topics, ensuring accurate and up-to-date information for documentation purposes.
  - Worked on marketing outreach initiatives within the developer community. Built presence and promoted awareness of kandi on discussion forums.
- **Inspira Enterprises** 06/2023- 07/2023  
*Data Analytics Intern* Ranchi
  - **Performed advanced data analysis:** Utilized Python and data manipulation techniques to collect, clean, and conduct extensive exploratory data analysis on diverse datasets. Identified meaningful patterns, trends, and insights, driving data-driven business decisions and contributing to the company's growth.
  - **Developed a robust web portal for CSIS:** Collaborated with CMPDIL (Under Ministry of Coal) to create an efficient web portal for data management within the coal industry. Implemented data visualization tools to facilitate easy interpretation of complex information, enabling stakeholders to make informed decisions promptly.
  - **Created Python-based Payroll Comparison Tool:** Designed and implemented a data analysis tool using Python, empowering the payroll review process with automated data processing and insightful visualizations, leading to enhanced accuracy and efficiency.
- **Podeum** 12/2022 - 01/2023  
*Marketing Intern* Remote
  - Within the startup ecosystem, I led a strategic marketing outreach campaign, effectively expanding our customer base and nurturing conversions into loyal members.
- **CMPDI** 12/2022 - 01/2023  
*Big Data Intern* Ranchi
  - **Conducted text mining and analytics using SAS Enterprise Miner:** Analyzed safety issues and accidents data from various coal fields and mines, leveraging SAS EMiner to uncover crucial insights. Developed predictive models to forecast potential safety concerns, contributing to proactive risk management strategies.

## PERSONAL PROJECTS

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- **AI Tutor** 04/2023-09/2023  
*An AI-Powered Python Script for Teaching Machine Learning Topics.*
  - Tools & technologies used: Python, OpenAI
  - AI Tutor is a Python script that harnesses the power of OpenAI's GPT-3 language model to deliver automated tutoring on various machine learning topics.
- **Gender and Age Detection** 09/2022-11/2022  
*Identify the gender into two binary values(Male and Female) and estimate age using facial features.*
  - Tools & technologies used: Python, Deep Learning, Streamlit
  - The baseline model was set as CNN and multiple models were implemented such as CNN with Skip Connections, ResNet, AlexNet, VGGNet, InceptionV3. CNN with Skip Connections achieved the best accuracy of 87.56.

## •Carbon Emission Calculator

08/2022

*Calculates the total CO2 emission of a household in India.*

- Tools & technologies used: HTML, CSS, JS
- Calculates the total CO2 emission of a household using functions made in JavaScript and suggests changes to be made to reduce the emission if the calculated values pass a certain threshold.

## •Movie Recommender System

05/2022-06/2022

*Recommend Movies to users using Machine Learning Algorithms.*

- Tools & technologies used: Python, Machine Learning, FastAPI, HTML
- The Movie Recommender System is a Python-based project that utilizes K-Nearest Neighbors algorithm to provide personalized movie recommendations to users based on their input.

## •Anime Recommender System

04/2022-06/2022

*Recommend Anime to users using Machine Learning Algorithms.*

- Tools & technologies used: Python, Machine Learning, FastAPI, HTML
- Developed an Anime Recommender System using Cosine Similarity, KNN, and Association Rules, leveraging user preference data and ratings from a dataset of 73,516 users and 12,294 anime, aimed at improving the accuracy and effectiveness of anime recommendations for users based on their viewing history.

## •Anti-Suicide Chat Bot

07/2021 - 08/2021

*A chat-bot related to suicidal thoughts prevention.*

- Tools & technologies used: Python, Deep Learning, JSON
- A chat bot which talks to people and replies to them based on a set of predefined responses related to suicidal thoughts. The algorithm is using a neural network of 16 neurons to predict the right output based on the input in the intents.json file.

## SKILLS

**Programming Languages:** Python, C/C++  
**Web Development:** HTML, CSS, Flask, FastAPI  
**Cloud/Databases:** MySQL  
**Big Data:** Hadoop, Spark, Hive, Pig  
**Frameworks:** PHP  
**Data Science:** Machine Learning, Deep Learning  
**Developer Tools:** PyCharm, Visual Studio Code, Anaconda, DevC++, SAS  
**Image Processing:** OpenCV  
**Data Visualization:** Matplotlib, Seaborn  
**Natural Language Processing (NLP):** NLTK, SpaCy  
**Computer Vision:** TensorFlow, Computer Vision  
**Management:** Project Management, Team Collaboration  
**Marketing:** Digital Marketing, SEO

## POSITIONS OF RESPONSIBILITY

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|---|-------------------|
| • <b>Graphics Head:</b> The MIT Editorial Board, Student Council, MIT               | 03/2023 - 10/2023 |
| • <b>Core Committee, Sports:</b> Head Committee Member, Cultural Fest - Revels 2023 | 01/2023 - 03/2023 |
| • <b>Event Head, Swimming:</b> Cultural Fest - Revels 2022                          | 03/2022- 04/2022  |
| • <b>Organizer, Kalakriti:</b> Cultural Fest - Revels 2022                          | 03/2022- 04/2022  |
| • <b>Management Committee:</b> The Manga and Anime Club                             | 08/2021- 09/2022  |

## CERTIFICATIONS

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| • <b>Deep Learning Specialization,</b> DeepLearning.ai                     | 09/2021 |
| • <b>Introduction to Data Science Specialization,</b> IBM                  | 03/2021 |
| • <b>Data Science Fundamentals with Python and SQL Specialization,</b> IBM | 01/2021 |

## REFEREES

Ashish Das	Email: ashish.das@coalindia.in Organization: Innovation Cell, CMPDI HQ, Ranchi
Himanshu Shekhar Sharma	Email: hs.sharma@coalindia.in Organization: Innovation Cell, CMPDI HQ, Ranchi