

JOY KARMAKAR

MCKV Institute of Engineering

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Aspiring to be a part of a reputed organization, working in a responsible position and performing consistently to the best of my skills and abilities to learn and grow along with the organization.

EDUCATION

- ✓ Pursuing **B. Tech in Computer Science and Engineering (Data Science)** (2020-2024) from **MCKV Institute of Engineering** under **Maulana Abdul Kalam Azad University of Technology**.
- ✓ Presently in **7th** semester, with an average CGPA of **8.63**.
- ✓ **Gap in education** because of parasitic infection in brain (**Neurocysticercosis**) resulting in continuous seizures, blackouts, and muscle numbness on right side of body.

CLASS	BOARD	INSTITUTE	MARKS	YEAR
B.Tech	MAKAUT	MCKV INSTITUTE OF ENGINEERING	8.63	2024
12 TH	WBCHSE	SERAMPORE UNION INSTITUTION	67.60%	2015
10 TH	WBBSE	SERAMPORE UNION INSTITUTION	72.71%	2013

PROJECTS

- 1. Driver Drowsiness Detection System (Python, TensorFlow, Keras, OpenCV)**
 - Used Eye MRL dataset to train the model.
 - Achieved 86% accuracy.
 - Given a score based on the closing frequency of driver's eyes.
 - Implemented alarm system to alert the driver.
- 2. Diagnosing Breast Cancer using KNN algorithm (NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn)**
 - Used Breast Cancer Wisconsin (Diagnostic) Data Set (Version 2) to train the model.
 - Used Seaborn and Matplotlib to plot and visualize the output of the model.
 - Used Numpy for numerical calculations over arrays and Pandas for data preparation.
- 3. Smart White Cane (C, C++, Arduino)**
 - Used Arduino Uno microcontroller to get the response from the sensors and give the output to indicators.
 - Used HCSR04 ultrasonic sensors for detection of nearby objects and depth of the ground.
 - Implemented GSM7670 C module to send danger alert message.
- 4. Ecommerce website (ReactJS, NodeJS, ExpressJS, MongoDB)**
 - Developed a user friendly, responsive web application with functionalities such as product listings, Payment Gateway, creating new user, adding items to cart, searching items, applying filters to get desired items etc.
 - Developed the admin panel for managing users, updating order status, product status, product availability etc.
 - Created RESTful APIs with NodeJS and ExpressJS.
 - Used NoSQL database (MongoDB) to store our data.

ACHIEVEMENTS AND AWARDS

- Secured 1st position in Intra College Smart India Hackathon 2022.
- Represented our college in the final rounds of Smart India Hackathon hosted by Ministry of Education, AICTE, held at Hindustan College of Engineering, Coimbatore.

COMPUTER SKILLS

- ✓ **Programing Languages:** C, Python, Java, JavaScript, HTML, and CSS.
- ✓ **Software familiar with:** Excel, Word, Power point, Visual Studios.
- ✓ **Database familiar with:** SQL, MongoDB (NoSQL).
- ✓ **Libraries/Frameworks:** ReactJS, NodeJS, ExpressJS, TensorFlow, Keras, OpenCV.
- ✓ **Operating Systems known:** Windows (XP, 7, Vista, 8, 10, 11), Linux/UNIX.
- ✓ **Tools/Platform/IDE:** Git, Github, VSCode, Eclipse, Jupitor, Arduino.

TRAINING AND INTERNSHIP

1. Full Stack Development Using MERN Stack

- ✓ **Organization Name:** ARDENT CompuTech Pvt.Ltd.
- ✓ **Duration:** 27/10/2023 to 12/04/2023
- ✓ **Internship Project:** E-commerce Website (ReactJS, NodeJS, ExpressJS, MongoDB)

2. Deep Learning Using TensorFlow and Keras

- ✓ **Organization Name:** ARDENT CompuTech Pvt.Ltd.
- ✓ **Duration:** 12/08/2023 to 20/11/2023
- ✓ **Internship Project:** Diagnosing Breast Cancer using KNN algorithm

SUBJECTS OF INTEREST

- Machine Learning.
- Data Science.
- Artificial Intelligence.
- Web Development

PERSONAL INTERESTS & HOBBIES

- Playing Football, Cricket, Chess, Carrom.
- Travelling and Exploring
- Cooking

PERSONAL DOSSIER

- ✓ **Permanent Address:** 135/D, G.T. ROAD, DEY BAGAN
SERAMPORE, HOOGHLY, 712201, WEST BENGAL
- ✓ **Date of Birth:** 20th February 1997
- ✓ **Nationality:** INDIAN
- ✓ **Gender:** MALE
- ✓ **Marital Status:** UNMARRIED
- ✓ **Languages Known:**

	ENGLISH	BENGALI	HINDI
READ	✓	✓	✓
WRITE	✓	✓	
SPEAK	✓	✓	✓

REFERENCES

- **Mr. Avijit Bose** Head of the Department (**Department of Computer Science and Engineering**) MCKV Institute of Engineering
+91 9831640627, hod-cse@mckvie.edu.in.

DECLARATION

I hereby declare that the above information is true to the best of my knowledge.

Place: **SERAMPORE, HOOGHLY.**


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(SIGNATURE)