

# GARGI CHAKRABORTY

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1/1, South Kalianibas 2<sup>nd</sup> Lane, Barrackpore, West Bengal, India

D.O.B: 10/02/2003

Branch: Computer Science Engineering (AIML)

## Career Objective:

Passionate AI/ML B. Tech student, skilled in programming, data analysis, algorithms. Eager to innovate, solve challenges, and learn in a dynamic tech environment.

## Academic Details:

- **B. TECH CSE- 90.80% (Aggregate till semester V)**  
Brainware University
- **HSC- 84.9%**  
Ramakrishna Vivekananda Mission Vidyabhawan (H.S)
- **SSC- 90.2%**  
Ramakrishna Vivekananda Mission Vidyabhawan

## Technical Skills:

- **Programming Language** – Python, C, C++, Java, HTML, CSS, JavaScript.
- **Database-** MySQL, PostgreSQL.
- **Domain Knowledge** – Natural Language Processing, Machine Learning, Deep Learning, Image Processing, Computer Vision, Generative AI, LLMs.

## Work Experience:




Currently Working as a Research and Development Intern in University of Calcutta (AKCSIT).

11.12.2023 – Present

## Patents:

- 1st author of a patent on - "A Legal Chatbot Using Natural Language Processing- Kanoon Mitra" (Published). Application Number: 202331049760 A
- 8th author of a patent on - "Chakravayuh: An AI Based Crime Prevention System" (Published). Application Number: 202331049753 A

## Papers and Publications:-

- Author of AISC 2024 (International Springer Conference on Artificial Intelligence & Sustainable Computing) on – "End-to-End Optical Character Recognition for Bengali Handwritten Words Using Custom EfficientNet" (Accepted).
- Author and presenter of ICIDA 2023 (International Springer Conference on Innovations in Data Analytics) on - "An AI Based Integrated Framework for Motion Activated Facial Recognition" (Accepted).
- Author of Willey Book Chapter on - "Evaluating the Readability of English Language Using Machine Learning Models" (Published). 
- Author of Willey Book Chapter on - "Image Enhancement techniques to modify an image for Machine Learning Application" (Published). 
- Author of Willey Book Chapter on - "IoT-based Health Monitoring using a Hybrid Machine Learning Model" (Published). 
- Author of Willey Book Chapter on - "HDRL-Hybrid Deep Reinforcement Learning approach for Dynamic Malware Analysis" (Accepted).
- Author of CRC Book Chapter on - "Empowering Edge-Enabled resource-efficient collaborative deep learning over B5G/6G Networks" (Accepted).

## Hobbies and Interests:








- Reading articles on new technologies.
- Music.
- Painting.

**Languages Known:** Bengali (Native), English, Hindi, German (Beginner)

## Projects:

- **An AI Based Integrated Framework for Motion Activated Facial Recognition**
  - Technical tools used: Python, OpenCV, Sentiment Analysis.
  - The "AI Based Integrated Framework for Motion Activated Facial Recognition" is a cutting-edge technology designed to enhance road safety by detecting driver drowsiness and soberness during driving. Leveraging artificial intelligence (AI) algorithms, this framework analyzes facial expressions and movements to identify signs of fatigue or impairment.
- **Kanoon Mitra – An AI Based Legal Assistant**
  - Technical tools used: Python, Natural Language Processing (NLP), Google maps (Graphs).
  - This Assistant, named Kanoon Mitra, is designed to assist users with legal queries and provide relevant information in a user-friendly manner. By combining NLP capabilities with a vast legal knowledge base, Kanoon Mitra aims to simplify complex legal concepts and procedures, making legal information more accessible to the general public.
- **Doctor Appointment Booking System**
  - Technical tools used: Python, Flask, HTML5, CSS, JavaScript.
  - This Doctor Appointment Booking System Server is based on Python Flask and the specialty is that it is a .db file free website and all the database is maintained out of text files.
- **FauxShield – an Integrated Platform to detect deepfake Audios, Videos & Images**
  - Technical tools used: Python, CNN, PyAudio, TensorFlow, Keras, HTML5, CSS, JavaScript
  - FauxShield is an integrated platform designed to detect deepfake audios, videos, and images. By leveraging advanced machine learning algorithms and state-of-the-art techniques, it provides a comprehensive solution for identifying and mitigating the risks associated with synthetic media.

## Certifications:

- "Introduction to Generative AI" (Google) April, 2024. 
- "Introduction to LLMs" (Google) April, 2024. 
- Infosys Certification on "Introduction to Machine Learning" 2024. 
- Infosys Certification on "Introduction to Data Science" 2024. 
- Skillsoft Certification on "Introduction to Machine Learning & Supervised Learning" 2024. 
- Skillsoft Certification on "Machine Learning Implementation" 2024. 
- "Mastering Data Structure & Algorithms using C and C++" (Udemy) 2022. 
- "Foundations of Front - End Web Development" (Udemy) 2022.

## Extracurricular Activities:

- Finalist among 600 teams in KLEOS 2.0 – 36-hours National Level Hackathon in Ramrao Adik Institute of Technology, D. Y. Patil Deemed to be University, Nerul, Navi Mumbai 2024.
- Finalist with securing 7th position in CODESPIRE – 36-hours National Level Hackathon in Acropolis Institute of Technology, Indore 2023.
- Nominated for YUKTI Innovation Challenge 2023.
- Participated in Department of Science and Technology (DST), West Bengal workshop 2023.
- Participated in Electhon 2023.
- Participated in Smart India Hackathon 2023.
- Participated in MSME Idea Hackathon 2.0 2022.