

Curriculum Vitae

DIKSHANT KUMAR SINGH

Hooghly, West Bengal

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Github: <https://github.com/Dikshant9484>



Career Objective

A motivated and detail-oriented B.Tech CSE student with strong skills in software development, AI/ML, and web development. Seeking an opportunity to apply my technical abilities, learn from industry experts, and contribute to building efficient, scalable, and user-centric solutions.

Education

Name of the Institution	Degree	Board/University	Year of passing	Percentage of Marks
Brainware University	B.Tech	Brainware University	2022 - 2026	90% (approx. till last sem.)
Vision International School	12 th	ISC	2022	87.25%
Stepping Stone School High	10th	ICSE	2020	87%

Technical Skills

- Programming Languages – C, Python, Java, SQL
- Web Technologies – HTML, CSS, JavaScript, React.js, Node.js, Express.js, MongoDB, Streamlit, Flask
- FIGMA, VS CODE
- ML/DL – Scikit-Learn, Tensorflow, Keras Matplotlib, Pandas, Numpy, CNN, ANN
- GEN AI – LLM, Langchain, Hugging face

Internships/Experience

Bharat Intern

[Jan 2025 – Feb 2025]

1. Developed and optimized web applications using React and Django.
2. Collaborated with a team to design responsive and user-friendly interfaces.
3. Implemented backend functionalities and integrated APIs for seamless performance.

Gained hands-on experience in full-stack development and problem-solving

COGNIFYZ TECHNOLOGY

[Sept 2024 – October 2024]

- DATA ANALYSIS

TECHNOLOGY INNOVATION HUB, INDIAN STATISTICAL INSTITUTE, KOLKATA

[Aug 2025 – Sept 2025]

- Data Cleaning and Regression.
- LLM fundamentals, ML overview, Regression and Classification

ANGULAR FULL STACK INFOSYS SPRINGBOARD 5.0

[August 2024]

- WEB DEVELOPMENT (CERTIFICATION COURSE)

Academic Projects

HERITAGE OF INDIA

[September,2023,SIH]

- Developed a website using HTML, CSS , JavaScript and MongoDB to highlight India's heritage.
- Created a responsive UI and managed data with MongoDB.
- Developed full-stack Web development skills through the project.

AI TOOLS FOR GENERATING INDIAN SIGN LANGUAGE FROM VISUAL CONTENT

[September,2024,SIH]

- Developed an AI-powered platform to generate Indian Sign Language (ISL) gestures, aiming to reduce communication barriers for deaf and mute individuals.
- Implemented key machine learning and AI techniques using Python.
- Utilized OpenCV and MediaPipe for real-time hand detection and gesture extraction.
- Trained deep learning models using TensorFlow and Keras to generate accurate ISL gesture predictions.

VIDEO PROCTORING (OPTIMA event , IIT KHARAGPUR,2025

[March,2025]

- Developed a Python based application that protects the candidates from cheating by analyzing their head movement and surrounding sound.
- Used the concept of machine learning and AI.
- Trained the model and used OpenCV detection and image capturing.

MOBILE CONTROL CAR

[May,2024]

- Developed using Arduino .
- Used ESP32 for controlling and establishing Arduinio based connection.
- Controlled using mobile based apk.

AI ASSIGNMENT GRADING

[May 2025]

- Developed an automated assignment grading system using FastAPI for high-performance backend processing.
- Integrated Google Generative AI API / Google Gemini API (adjust depending on which one you used) to evaluate student responses, generate scores, and provide detailed feedback.
- Designed APIs for text input, model scoring, and structured feedback generation.
- Implemented preprocessing, rubric-based evaluation, and prompt engineering to improve accuracy of grading.

BIOMEDICAL IMAGE DETECTION AND FEATURE EXTRACTION

[sept.2025]

- Built a system for automated detection and feature extraction from biomedical images.
- Applied Machine Learning and Deep Learning techniques to analyze medical image patterns.
- Used OpenCV for image preprocessing tasks such as noise removal, edge detection, and segmentation.
- Implemented feature extraction methods to identify key structures in biomedical images.
- Trained models using TensorFlow/Keras to classify and interpret medical image data.

AREA OF INTEREST

- Software Web development
- Artificial intelligence and machine learning
- Problem solving
- Data structure

ACHIEVEMENTS / AWARDS

- Finalist, HACKTACK, OPTIMA, IIT KGP (BizTech Hackathon, Techno-optimization fest).
- Publication of Review Paper [**IGI GLOBAL**],[Enhacing- Customer -Interactions-in-Fintech-with-NLP] under the guidance of Mr.Piyal Roy (programme co-ordinator, Brainware University) and teammate Eshani Banik.
<https://doi.org/10.4018/979-8-3693-9944-6.ch010>
- Finalist, TECHNICHÉ, Entrepreneur Hackathon, IIT GUWAHATI.

Extra-curricular Activities

- Solving DSA problems on platform like Leetcode, Geeks for Geeks
- Playing guitar
- Cooking (Indian cuisine)
- Playing cricket and football

CERTIFICATION

1. ROBO REACH X-ROBOTICS
2. SMART INDIA HACKATHON 2023 & 2024
3. **Google Cloud Agentic AI**, participation Certificate
4. **IGI, GLOBAL**, Publication of Review Paper
5. SPOKEN TUTORIAL BY IIT BOMBAY (C, C++, PYTHON)
6. INFOSYS SPRINGBOARD 5.0
7. INDIAN STATISTICAL INSTITUTE, TIH, KOLKATA, INTERNSHIP CERTIFICATES
8. HACKTANK, Biz TECH hackathon, **OPTIMA, IIT KGP** (2025)
9. TECHNICHE, Entrepreneurship Hackathon, **IIT GUWAHATI** (2025)

Languages Known

Language	Read	Write	Speak
English	Yes	Yes	Yes
Hindi	Yes	Yes	Yes
Bengali	Yes	yes	Yes

Personal Details

Name : DIKSHANT KUMAR SINGH

Date of Birth: 29-10-2003

Permanent Address: EAST CHAMPARAN, MOTIHARI, BIHAR

Father's Name: SHAILENDRA KUMAR

Nationality: INDIAN

Declaration:

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

Dikshant Kumar Singh

Place: Barasat, kolkata

Date : 16.11.25

