

# Sayandeep Pal

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## PROFESSIONAL SUMMARY

Final year Data Science and Engineering undergraduate at IISER Bhopal, keen to leverage technological expertise and passion for innovation on impactful projects. Avid reader and movie enthusiast with a love for football and a desire to volunteer for social causes.

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## EXPERIENCE

May 2023-

Aug 2023      **INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH (IISER) BHOPAL**      Bhopal, India  
**Summer Research Intern**

- Worked on video data analysis for the project "**Early Detection of Anxiety and Depressive Disorders in an Interview Setting using Deep Learning and Sensor Data**" under Dr. Haroon Rashid Lone at IISER Bhopal's Systems and Informatics Research Laboratory. Conducted interviews, collected pre-processed data, and extracted features.
- Performed facial feature extraction, body pose estimation, and feature engineering on extracted features. Additionally, I conducted literature reviews and utilized Mobaxterm for data storage, retrieval, and transfer between servers.
- Tech Stack: OpenCV, MediaPipe, Py-feat, Python, Git Bash
- [Internship Completion Certificate](#)

Dec 2022-

Jan 2023      **INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH (IISER) BHOPAL**      Bhopal, India  
**Winter Research Intern**

- Worked on video feature extraction and semantic analysis remotely under the guidance of Dr. Haroon Rashid Lone from the Department of EECS at IISER Bhopal.
- Tech Stack: OpenCV, TensorFlow, Jupyter Notebook, Python
- [Internship Completion Certificate](#)

Aug 2023-

Aug 2023      **International Institute of Information Technology (IIIT) Hyderabad**      Remote  
**7th Summer School on AI**

- Selected for the 7th Summer School on AI organized by IIIT Hyderabad, gaining valuable learning and networking opportunities with industry leaders, peers, and renowned researchers.
- [Certificate of Participation](#)

Jun 2022-

Jul 2022      **INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH (IISER) BHOPAL**      Bhopal, India  
**Lab Intern**

- Lab intern under Dr. Mitradeep Bhattacharya at IISER Bhopal's Department of EECS, contributing to the development of a sleep monitoring device within the flexible electronics and IoT domain. Gained initial exposure to professional research lab environments, working extensively with Arduino and sensors.
- Tech Stack: C, Arduino Uno, TinkerCad

Aug 2023-

Aug 2023      **IBM**      Remote  
**2nd Summer School on Neuro-Symbolic AI**

- Learned from industry leaders and academicians through a carefully crafted lecture series.

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## PROJECTS

- **Finding the optimal location of hospitals using Hill Climbing and Genetic Algorithms for IISERB Campus**
  - This project is dedicated to identifying the most optimal locations for constructing new hospitals on the IISER Bhopal campus. By applying the hill climbing algorithm with random restarts and Genetic Algorithm, this

project analyzes spatial data to pinpoint locations that optimize accessibility and efficiency for healthcare services.

- **Alzheimer Prediction by Handwriting Recognition**

- The objective of this project is to explore whether Alzheimer's disease can be predicted through handwriting recognition using Darwin dataset.

- **Bridging the Gap in Text-Based Emotion Detection(Track A: Multi-label Emotion Detection) : SemEval 2025 Task 11**

- Given a target text snippet, predict the perceived emotion(s) of the speaker. Specifically, select whether each of the following emotions apply: joy, sadness, fear, anger, surprise, or disgust. In other words, label the text snippet with: joy (1) or no joy (0), sadness (1) or no sadness (0), anger (1) or no anger (0), surprise (1) or no surprise (0), and disgust (1) or no disgust (0).

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## EDUCATION

2021-2025	<b>INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH (IISER) BHOPAL</b> <b>Bachelor of Science; Major in Data Science and Engineering (8.04/10)</b> <ul style="list-style-type: none"><li>● Leadership: <b>Placement Cell Coordinator, E-Cell IISERB (Marketing and PR), UG Representative (Engineering Science), Student Mentor</b></li><li>● Extra-Curriculars: <b>Peer Counselor (Institute Counseling Cell), Aarambh (Drama Club)</b></li></ul>	Bhopal, India
2006-2021	<b>SOUTH POINT HIGH SCHOOL</b> <b>AISSCE(XII) - 95.2%, AISSE(X) - 94.6%; Science Stream</b> <ul style="list-style-type: none"><li>● Extra-Curriculars: Quiz Club, Photography Club</li></ul>	Kolkata, India

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## OTHER

- Languages: English (Professional), Hindi (Intermediate), Bengali (Native), German (Beginner)
- Technical Skills: Python, MATLAB, MS Office Suite, SQL, Stata, Pandas, DSA, C, Pytorch, OpenCV, Arduino Uno, Probability, Statistics, Linear Algebra, Calculus, Machine Learning, Data Structures and Algorithms
- Achievements: **Top 1 percentile in IAT 2021(AIR 1219), Top 2 percentile in WBJEE 2021 (AIR 1928), Top 5 percentile in JEE Mains 2021**
- Social Work Volunteer at [Muskurahat Foundation](#)