



# Kritika Kumari Mishra

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📍 Jain Global Campus, Bengaluru India

🌐 Kritika Kumari Mishra

🔗 Kritika Mishra

🔗 KritikaMishra07    🏠 R<sup>6</sup> Kritika

## 📄 PROFILE

Motivated Software Engineer and Data Science student with a strong foundation in AI validation, embedded systems, and software debugging. Experienced in AI/ML model validation, firmware testing, and automation scripting. Proficient in Python, C++, and Windows OS internals with a deep understanding of hardware components, BIOS, and firmware debugging

## 🎓 EDUCATION

**Bachelor's degree in computer science,**  
*Jain (Deemed To Be University)*  
present

**Intermediate with Information and Technology,**  
*Shree Nrisingh Madhyamik Vidyalaya Pipramath*

**Tenth with Information and Technology,**  
*Shree Nrisingh Madhyamik Vidyalaya Pipramath*

## 📁 PROJECTS

### CPP Analyser and Fixer ✍

- C++ debugging assistant with GUI for real-time feedback, memory leak detection, and test execution.

### Financial Consumer Complaint Analysis ✍

- Text extraction and analysis with Exploratory Data Analytics, Transformers, Bert and NLP.

### MindCare Bot, Mental health Assistant ✍

- Created a chat bot using Python, Flask and Javascript

### Trader Bot ✍

- Gemini-powered bot with FastAPI backend, React UI, real-time pricing, and dynamic charts.

## 📁 WORK EXPERIENCE

### Researcher, Jain University

2023/06 – present | Bangalore, India

- Conducting AI and data science research on ML, DL, and data privacy.

### Content Writer, Mindsprite Solutions

2023/10 – 2024/11 | Ahmedabad, India

- Developed educational content in aptitude, research, math, and English.

### Teacher, Siddhartha National Secondary School

2020/08 – 2022/05 | Birgunj, Nepal

- Designed interactive lessons to enhance student learning.

## 🏆 AWARDS

### Mahatma Gandhi Scholarship, Embassy of India

- Grant for Intermediate Studies

### Pragatii Scholarship, Study In India

- Full time Undergraduate Scholarship

## 🧠 SKILLS

### Programming Languages

Python, C++, C, Java, Javascript

### Database Management Systems

SQL and NoSQL

### Analytics Tools

Power BI, Excel & Tableau

### Software Development

Git, Agile Methodologies, Test-Driven Development, OOPs, Data Structures and Algorithms, Multi-threaded Programming, Design Patterns, Debugging & Testing

### Frameworks

Sci-kit Learn, Tensorflow, Pytorch, React.js & Flask

### Operating System

Windows & Linux

### Generative AI

RAG, Encoding, Decoding & Prompt Engineering

### Software Tools

Photoshop, Microsoft Office Package, Canva & Overleaf

### Soft Skills

Time Management, Collaboration, Team Work and Attention to Details.

## 📄 PUBLICATIONS

### Transforming Ultrasound-Based Breast Cancer Diagnosis with DenseNet121 and Explainable AI,

*Computers in Biology and Medicine*

Accepted for Publication in a journal With impact factor 7.7

### Transformative Breast Cancer Diagnosis using CNNs with Optimized ReduceLROnPlateau and Early Stopping Enhancements ✍

### Enhancing Diagnostic Precision in Breast Cancer

**Classification Through EfficientNetB7 Using Advanced Image Augmentation and Interpretation Techniques ✍**

## 📄 CERTIFICATES

- Structural Design Patterns in modern C++ ✍
- Data Analysis using SQL, Fractal ✍
- Python Essentials MLOps, Duke University ✍