



Kritika Kumari Mishra

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📍 Jain Global Campus, Bengaluru India

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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

Pragati 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