

# Kanik Pathak

📍 Uttarakhand, India ✉ kanikpathak1234@gmail.com ☎ +91 9528943131 🌐 in/kanik-pathak-542322259

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## EXPERIENCE

### Project Trainee (Deep Learning)

Bhabha Atomic Research Center

April 2024 - July 2024, Mumbai

- Engineered a deep learning model to accurately detect and classify deepfake videos using PyTorch and open-source libraries, enhancing video content security achieving 86% validation accuracy.
- Evaluated and benchmarked multiple deep learning approaches to identify the optimal method for frame-by-frame deepfake detection, improving model accuracy improving from 58% to 86% after hyperparameters adjustment.
- Leveraged Nvidia A100 GPU for efficient GPU training, significantly reducing development time and enhancing model performance.

### Frontend Intern (ReactJS)

Clinical AI Assistance

December 2023 - February 2024

- Developed and implemented an innovative website redesign project for Clinical AI Assistance using React.js, Figma, and NodeJs, resulting in a 30% user interaction and .
- Optimized the UI by integrating key components, improving user interaction and accessibility for seamless navigation using Figma.
- Collaborated across departments to ensure flawless website functionality and efficient performance, leading to a 20% improvement in load time.

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## PROJECTS

### Image Classification model

- Developed a basic image classification toy model using CNN multi layer perceptron training achieving 99% validation accuracy.
- Gained a solid understanding of AI fundamentals, including model evaluation, data pre-processing, and optimization techniques.
- Applied mathematical and problem-solving approaches, enhancing the accuracy of classification and overall model performance.

### Personal Portfolio

- Designed and developed a portfolio website to showcase web development skills and highlight professional projects.
- Created a responsive UI inspired by Amazon's product display page, emphasizing ease of navigation and skill presentation.
- Integrated features like a short resume display and skill highlights to improve user experience and engagement.

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## SKILLS

Languages: C++, JavaScript, Python.

Tech-Stack: Web Development- React, Python, Pytorch, Machine Learning, Deep Learning, Artificial Intelligence.

IDE: VS Code.

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## EDUCATION

### Master of Computer Applications

Banaras Hindu University • Varanasi • 2024

### Bachelor of Science Hons.(Maths)

Jamia Millia Islami • New Delhi • 2022 • 9.02

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## CERTIFICATIONS

### Data Science for Engineers

NPTEL

- It provides a strong foundation in data analysis, machine learning, and statistical methods, which are crucial for solving real-world engineering and business problems using data-driven approaches.

### AI-Data Scientist 6 months course by NASSCOM

- It helped me understand the fundamentals of Artificial Intelligence also to brush up my core knowledge on Artificial Intelligence
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