

MUKESH KUMAR GHOSH

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EDUCATION

VIT Bhopal University

B.Tech in Computer Science and Engineering: 85.70
(Specialization: Artificial Intelligence and Machine Learning)

Bhopal, Madhya Pradesh
Expected May 20205

S.K.S Public School (CBSC Board)

Higher Secondary: 85.58 % (PCM with Computer Science)
Secondary: 89.20%

Paschim Bardhaman, West Bengal
July, 2021
May, 2019

SKILLS

Programming Languages	Python, C++, SQL
Core Competencies	Machine Learning Models & Algorithms
Relevant Coursework	Object-oriented programming, DBMS, Operating system, ML
Certifications	SmartInterz ML Extern-ship Certificate, Ethnus MERN full-stack internship program, Effective Problem Solving & Descision Making (Cousera) , Applied ML (Coursera)
Languages Known	English, Hindi, Bengali

PROJECT

AI Health Bot

March 2023- September 2023

- Managed a dataset of 114 symptoms and 27 diseases, achieving high accuracy with AI algorithms.
- Developed AI health bots for symptom assessment and personalized medical recommendations.
- Deployed chatbot capabilities for symptom analysis and hospital appointment scheduling, improving response times by 40%.

Global Healthcare Connect (Copyright - 22nd November 2024)

October 2023- May 2024

- Directed the development of a healthcare platform connecting 1,000+ hospitals globally, featuring real-time bed and specialist availability.
- Reduced emergency response times by 30% and enhanced user data security using Aadhaar-based authentication with 98% accuracy.
- Integrated multilingual support, expanding accessibility and achieving a 95% user satisfaction rate.

VITYouth - The Humanoid

October 2022- July 2024

- Designed and deployed a humanoid robot with advanced surveillance capabilities, including real-time video streaming, anomaly detection, and autonomous navigation.
- Implemented gesture-based interaction and face recognition using OpenCV and TensorFlow, enhancing efficiency in monitoring tasks.
- Utilized cloud-based analytics for real-time data processing, reducing latency by 20%.

EXTRA-CURRICULAR ACTIVITIES

Research Papers

- Autonomous Navigation of Humanoid Robots Using Kinect Sensor:** Presented at IEEE PUNECON 2024, explored vision-based obstacle detection and path planning using Kinect and Arduino on **13th-15th December 2024**
- Robotic Recon:** Presented at IEEE Conference at MANIT Bhopal, developed a robotic arm for safe operations like bomb disposal with night vision and remote control. **6th-8th December 2024**
- LaneGuard:** Presented at ICSDP 2024 (Spinger) , created a real-time detection framework using YOLOv5 and Mask R-CNN for road safety. **21st-23rd November 2024**

Leadership Roles and Activities

- National Service Scheme (NSS):** Organized a 7 Day Camp, 8 nukkad nataks, university-level Independence Day events, and participated in tree plantations and social awareness drives.
- Student President & Anti-Ragging Committee:** Managed 144 events, supervised 54 clubs, and addressed student concerns for 10,000 students.
- President, Electric Vehicle (EV) Club:** Led EV initiatives, organized workshops, and designed prototypes for sustainable energy solutions.

Awards

- Hackathon Winner - Meditech Expo 2024 & 2023:** Secured 1st place among 100 teams, earning ₹10,000 (2024) and ₹27,000 (2023) for innovative projects in renewable energy and medical technology.
- 1st Position in State - International Olympiad of English Language:** Recognized for excellence in communication and cultural understanding.
- 3rd Position - International Mathematics Day:** Awarded ₹700 for problem-solving and critical thinking.