



SUDHIR KUMAR

Roll No.: 24CS4102

Master of Technology

Computer Science and Engineering

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GitHub Profile

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EDUCATION

•NIT Durgapur

2024-2026

Master of Technology in Computer Science and Engineering

CGPA: 7.73

•Pranveer Singh Institute of Technology

2020-2024

Bachelor of Technology in Computer Science and Engineering, Uttar Pradesh

CGPA: 8.06

EXPERIENCE

• Backend Developer Intern – NIT Durgapur ERP Server

December 2024-January 2025

Backend Developer

- Developed and maintained backend functionalities for ERP systems using Django framework.
- Gained hands-on experience in database management, authentication, and ORM (Object-Relational Mapping).
- Collaborated with a team to optimize system performance and ensure seamless integration of backend services.
- Enhanced skills in debugging, code optimization, and implementing security best practices in web applications.

PERSONAL PROJECTS

•Non Invasive Anemia Detection

Current project

- Developing a device-based solution for anemia detection through palm and nail pallor analysis.
- Utilizing Convolutional Neural Networks (CNN) along with YOLO and DETR for advanced image processing to accurately analyze color changes (redness and yellowness) captured via smartphone video.
- Integrating real-time image analysis with video capture to assess anemia status based on color metrics under applied pressure.
- Focusing on creating a lightweight, efficient model suitable for mobile deployment to ensure accessibility and early diagnosis.
- Enhancing expertise in deep learning, computer vision, and optimizing models for real-time medical diagnostics, aiming to provide a non-invasive and cost-effective healthcare tool.

•Polyp Detection using Deep Learning

B.Tech Final year Project

- Developing a deep learning-based system for detecting cancerous tissues (polyps) in medical images.
- Implementing advanced neural networks to accurately identify and classify polyps, focusing on improving detection rates for early diagnosis of cancer.
- Utilizing image augmentation techniques to enhance the model's robustness and generalization across diverse datasets.
- Optimizing the deep learning model for high accuracy and efficiency, aiming for real-time analysis in clinical settings.
- Gaining proficiency in medical image processing, deep learning frameworks, and augmenting datasets to improve model performance in healthcare applications.

TECHNICAL SKILLS AND INTERESTS

Languages: C++,Python

Developer Tools: Git,Github,LINUX,VS Code,Kaggle

Frameworks/library: Django,React JS,Node Js

Databases: MySql,Postgres,Oracle

Certification: Coursera Accelerated Computer Science Fundamental(C++), Coursera Specialization for Machine,Infosys springboard Python certificate

Coursework: Data Structure and Algorithm, Object oriented Programming(OOPs),Operating System,DBMS

Areas of Interest: Machine learning, Backend development

POSITIONS OF RESPONSIBILITY

• Training & Placement Representative, NIT Durgapur

• Teaching Assistant,NIT Durgapur

Supported professors with lectures and grading, helped students during lab sessions, and handled various administrative tasks to enhance the learning experience.

ACHIEVEMENTS

- 500+ questions solved on leetcode,Hackerrank,codechef
- 2024 GATE Qualified with 96.9 percentile