

Priya Singh

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EDUCATION

Birla Institute of Technology Mesra

M.Tech in Computer Science
Grad. May 2022 | CGPA: 8.86

Bengal College of Engineering

B.Tech in Computer Science
Grad. Jul 2020 | CGPA: 8.39

Saraswati Vidya Mandir

AISSCE PCM
April 2016 | Per: 78.8%

Saraswati Vidya Mandir

AISSE
April 2014 | CGPA: 10

COURSEWORK

Post Graduate

Machine Learning
Cloud Computing
Advance Algorithms
Advance Data Structures
Advance Database Management
System

Under Graduate

Object Oriented Programming
Analysis and Design of Algorithms
Introduction to Programming
Data Structure
R-DBMS

HOBBIES

- Singing
- Badminton
- Teaching

Experience

- Currently working as Assistant Professor in Indraprastha Engineering College (IPEC), Gazhiabad-DOJ-15 may 2023
- Work as Freelancer in school websites.

PROJECTS

COVID-19 and Associated Lung Diseases Classification Using Deep Learning

GOOGLE COLAB | HPC | SEP 2021 – FEB 2022 | M.TECH

- Train and test the X-ray images of 9 class by 76% and 12% by HPC (High Performance Computing)
- Calculated the performance matrix (Accuracy, Precision, Recall, Confusion Matrix) by 96% (avg.) by DenseNet169 model

School Management System Software

VISUAL STUDIO | INTERNSHIP | JUNE 2019 – JULY 2019 | B.TECH

- Handling school related jobs by 70%
- Using VB.Net, SQL Server and Excel

SKILLS

PROGRAMMING

Languages

- Advance:- C, C++, HTML
- Intermediate:- Python, Java, PHP
- Novice:- Javascript, Machine Learning, C#

Technologies

- HTML
- CSS
- SQL

Framework

- Laravel
- DotNet
- MVC

ACHIEVEMENTS

INTERNATIONAL CONFERENCE

ICICC-2022 5th International Conference | Springer Published Research Paper | https://drive.google.com/file/d/1n2nAR-0EM1A2lvIwyel55xQ_dfjxacb6/view?usp=sharing | https://link.springer.com/chapter/10.1007/978-981-19-3679-1_22

COMPETITIVE PROGRAMMING

60% marks in Completion of PHP and MySQL Training | IIT Bombay | <https://drive.google.com/file/d/1RUi80EmC-5OAE-yTXG4LL1tngxL-bJqE/view?usp=sharing>

SINGING

Completed 5th year Hindustani Classical Music, Vocal Classical

Project Details

Working Experience Project

- Working as freelancer for maintaining different websites www.svmsindri.com, www.islsudamdih.com and www.sarvonmukhiwp.com.
- Platform used: .Net, HTML, CSS, JavaScript and SQL Server.
- Maintaining websites like update the theme of websites, upload the current photos related to any event, adding some more feature like feedback page etc.
- www.svmsindri.com and www.islsudamdih.com are school websites and www.sarvonmukhiwp.com is a website of an NGO for displaying information about the NGO and different activity.

M.Tech Project (COVID-19 and Associated Lung Disease Classification Using Deep Learning)

- With the help of a Deep Convolutional Neural Network (CNN), the research proposes an intelligent method to classify various nine diseases, including COVID-19, with the help of X-ray instances applying pre-trained DenseNet169 architecture.
- The highest accuracy attained by DenseNet169 is for COVID-19 with an accuracy of 99.4%, F1-score of 97.5%, precision of 97%, recall of 98%, and specificity of 99.6%.
- The highest True Positive rate we got in this is 99% for COVID-19, followed by 97% for Cardiomegaly.
- We used DL in the area of COVID-19 image processing in radiology which helps reduce false-negative and false-positive error for detecting and diagnosing all the described diseases and suggests an excellent chance for the availability of speed, low-prices, and cautious diagnostic favour to sufferers.
- Platform Used Google Colab, HPC (High Performance Computing). We have worked on node 3 (csehpc-n3) with hardware configuration: Intel Xenon® CPUE5-2630v3 2.4Ghz. CPU, 8 cores RAM of 64 GB. Keras with a TensorFlow backend is used in all the studies.

B.Tech Project (School Management System Software)

- In this project the process of admission conducted by the school, fees collected by schools, attendance, staffs details and its evaluation is considered.
- This project is designed keeping the factors in mind like Accuracy, Security, Reliability and User Friendly.
- This system saves the time of the student and of the administrator. It includes process like:
 - Registration of the student's details
 - Assigning the department based on their course
 - Maintenance of the record
 - Transport Details
 - Dues list (Student wise, Class Wise, Transport Wise, etc.)
 - Result
 - Certificate Printing (Date of Birth Certificate, Character Certificate, Bonafide Certificate, TC/SLC etc.)
 - SMS Facility
- Platform Used .Net, SQL Server, Excel.