



MR. SARTHAK KUMAR

B.Tech. - Computer Science & Engineering
- MIT - WPU

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BRIEF SUMMARY

Motivated and detail-oriented computer science student interested in Data Science and AI/ML with strong problem-solving skills. Skilled in data structures and algorithms, database management, and software engineering principles. Experience with team-based projects and working collaboratively to develop software solutions. Aiming to learn and grow each day through my journey.

KEY EXPERTISE

CPP Python Java MySQL HTML CSS Bootstrap Javascript Front-End Web Development
Project Management Skills PHP MongoDB Data Science Internet of Things Android Studio ReactJS MERN Stack
NoSQL Industrial IoT Artificial Intelligence Machine Learning Big Data Analytics Linux SQL Server

EDUCATION

Dr. Vishwanath Karad MIT World Peace University (MIT-WPU)

2020 - 2024

B.Tech. - Computer Science & Engineering - MIT - WPU | CGPA: 9.30 / 10.00

Kendriya Vidyalaya BEG, Pune

2020

12th | CBSE | Percentage: 91.20 / 100.00

The Bishop's School, Pune

2018

10th | CISCE | Percentage: 93.17 / 100.00

INTERSHIPS

IdeaS

17 Jul, 2023 - Present

Trainee - Associate Software Engineer

Key Skills: JIRA Java Github Agile

Bilans

06 Mar, 2023 - 24 Mar, 2023

Web Developer Intern

Key Skills: MongoDB Express.js React.js Node.js MERN Stack NoSQL Database Management

Established their website through MERN Stack framework, providing a comprehensive platform for users to interact with their event planning services.

Constructed and managed NoSQL Database with MongoDB Atlas to enable precise transaction processing of their services.

PROJECTS

Lab Resource Management System

Mentor: Prof. Sheetal Girase | Team Size: 4

Key Skills: DBMS MySQL PHP HTML CSS Bootstrap Front-End Web Development Project Management Skills

Developed Lab Resource Management System with MySQL-PHP and HTML-CSS-Bootstrap frameworks, enabling comprehensive search & processing of lab details at improved speeds.

Also, constructed a back-end database with MySQL-PHP platform to power real-time lab operation updates, increasing efficient analysis & processing of data.

Smart Street Lighting Control System using PWM

Mentor: Prof. Renuka Suryawanshi | Team Size: 4

Key Skills: Internet of Things ThingSpeak Data Analysis Python

Developed and implemented a comprehensive IoT-based smart street light system, resulting in a decrease in manual labor requirements and a reduction in electricity waste.

Utilized LDR sensor technology to optimize energy efficiency by automatically adjusting the brightness of street lights based on ambient light levels, resulting in an annual energy savings of 38.4%.

PUBLICATIONS / RESEARCH / WHITE PAPERS

Forecasting the Rate of Crimes committed against Women using Machine Learning Approach

Mentor: Prof. Rajendra Pawar

Key Skills: Big Data Machine Learning Data Visualization Data Science

Assessed existing prediction models & conducted new research on increasing women crime data from 50 districts in Madhya Pradesh, India. Developed and tested dynamic predictive models using machine learning techniques and a neural network on women crime data, achieving 87% accuracy.

SEMINARS / TRAININGS / WORKSHOPS

Industrial Internet of Things (IIoT)

13 Feb, 2023 - 25 Feb, 2023

Institute Name: National Institute of Technical Teachers Training & Research

Key Skills: Internet of Things Industrial IoT Industry 4.0 Mindsphere

Learned Industrial Internet of Things (IIoT) utilizing Mindsphere (Online Platform for Siemens), designing an optimal virtual machine with 4 components, 8 aspects, and 5 assets.

Android Development

13 Feb, 2023 - 25 Feb, 2023

Institute Name: National Institute of Technical Teachers Training & Research

Key Skills: Android Development Android Studio Mobile Application Development

Acquired knowledge in Android App Development using Android Studio and created several basic multi-purpose applications.

Python for Data Science

20 Mar, 2021 - 21 Mar, 2021

Institute Name: Dr. Vishwanath Karad MIT World Peace University (MIT-WPU)

Key Skills: Python Data Science

Attended a workshop by Mr. Ankur Singh of AI Adventures under the Official TechFest of MIT-WPU - Texphyr. Learned the basics of Python in Data Science and also developed a mini-game called "Missionaries & Cannibals" using Google Colab.

CO-CURRICULAR ACTIVITIES

- Innovation Hub - Team Member at Non-Tech Department - Conducted several workshops and events in the college related to Research, Entrepreneurship & Higher Education Opportunities
- RootKit.exe - Team Member of the App Development Team of Official App of MIT-WPU - Validated the integrity of the data before each upload cycle and conducted testing post-upload of unique app arguments, minimizing submission errors.

PERSONAL INTERESTS / HOBBIES

- Reading
- Cricket
- Badminton
- Music

IMs

- WhatsApp - 9403095744

PERSONAL DETAILS

Gender: Male

Marital Status: Single

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Date of Birth: 20 May, 2002

Known Languages: English, Hindi

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