

Madhav Raj

Resume

Contact Address: Kharahia, P.O - Mangalgarh
Samastipur, Bihar-848208
☎ +91 7070679606
✉ raj.madhav2004@gmail.com
DOB: May 10, 2004



EDUCATION QUALIFICATION

- (2022– Present) **Dr. B. C. Roy Engineering College, Durgapur (MAKAUT)**, B. Tech CSE (Data Science).
CGPA: 7.52/10 (upto 6th Sem)
- (2019-2021) **P. C. High School, Samastipur (CBSE)**, *Senior Secondary (XII)*, Science.
Percentage: 85.6 %
- 2019 **Sri Prakash Synergy School, Peddapuram (CBSE)**, *Secondary (X)*.
Percentage: 87.8 %

Projects/Internships

- (Nov - Dec 2023) **Gesture Control Wheelchair for Physically Challenged Person**, *Under the Mentorship of Dr. Dinesh Pradhan*.
Developed a gesture-controlled wheelchair aimed at enhancing mobility for physically challenged individuals.
- (March - May 2024) **Real-Time Temperature and Humidity Monitoring on Mobile Application**.
Designed and implemented a mobile application for real-time monitoring of temperature and humidity using block-based programming on MIT App Inventor.
- (May - June 2024) **Diabetes Prediction Model**, *Exposys Data Labs*.
Built a predictive model for diabetes using machine learning techniques, including data preprocessing, model selection, and evaluation.
- (June - December 2024) **Intelligent Air & Noise Pollution Sensing and Alert Companion Application for Mobile**, *National Institute of Technology, Durgapur*.
Developed a mobile application for real-time air and noise pollution monitoring with smart alerts and data analytics, enhancing public awareness and safety under the "I-PolluSense" project funded by IIT Kharagpur AI4ICPS | Hub Foundation.
- (January - May 2025) **Instant Social Space**.
 - Developed a real-time social networking web application featuring instant messaging, interactive social feeds, and secure user authentication.
 - Utilized TypeScript and modern JavaScript frameworks to design scalable front-end architecture and responsive UI components.
 - Implemented efficient state management and seamless API integration to ensure smooth user experience and real-time data updates.
 - Employed best practices in modular coding, code reusability, and performance optimization across the application.
- March – June 2025 **Personal Blogging Platform**, *WordPress, Remote*.
 - Developed and managed a personal blog using WordPress, focusing on topics related to psychology, environment, and personal growth.
 - Published and curated insightful articles such as "Changing the Mindset" and "Positive Thinking," receiving active user engagement and comments.
 - Customized WordPress themes and improved accessibility and layout for better readability and mobile responsiveness.
 - Exported blog content as XML for migration, backup, and integration into other platforms.
 - Gained experience with WordPress CMS, SEO fundamentals, content structuring, and user interaction handling.

- (May - July 2025) **Packaged App Development Associate** , *Accenture*.
- Developed and maintained enterprise-level software solutions with customization tailored to client requirements using Flask (backend) and React (frontend) frameworks.
 - Identified and mitigated SQL injection vulnerabilities by implementing parameterized queries and securing endpoints against error-based SQL injection attacks.
 - Integrated Microsoft Authentication Library (MSAL) in the backend to implement secure token-based authorization for protecting sensitive API endpoints.
 - Collaborated with DevOps teams to streamline CI/CD pipelines, ensuring seamless deployment across development, staging, and production environments while maintaining environment isolation.
 - Worked closely with cross-functional teams to deliver feature enhancements, resolve functional issues, and support application security audits and compliance checks.
 - Gained hands-on experience in ERP-related configurations and workflows along with agile methodologies in global-scale implementations.
 - Used tools like Postman and SQLAlchemy for API testing and secure database interactions, and participated in code reviews to enforce best practices in secure coding.

Training/Certification Programs

- (March - Oct. 2023) **Industrial Training on Networking.**
Indian School of Ethical Hacking
- (March - May 2024) **Industrial Training on Ethical Hacking.**
Indian School of Ethical Hacking
- (Jul - Sep 2023) **Introduction to Machine Learning.**
NPTEL Certification
- (January - April 2024) **Data Analytics with Python.**
NPTEL Certification
- (2024) **HTML Certification.**
Spoken Tutorial, IIT Bombay
- (2024) **Python Certification.**
Spoken Tutorial, IIT Bombay
- (2024) **Java Certification.**
Spoken Tutorial, IIT Bombay
- (2024) **Drupal Certification.**
Spoken Tutorial, IIT Bombay

PUBLICATION DETAILS

- (August 2024-Present) Research paper on "The Role of Consciousness and Neural Impulses in Enhancing Therapeutic Interventions" explores the use of neuroimaging technologies like EEG and fMRI to personalize therapy for conditions such as depression, PTSD, and Parkinson's. Presented applications and future directions at an academic conference..(not yet published)

MEMBER OF PROFESSIONAL BODIES

- (2023-Present) ACM STUDENT CHAPTER
- (2023-Present) GOOGLE DEVELOPER GROUP

MANAGEMENT AND ORGANIZATIONAL EXPERIENCE

- (2023) Led the team in planning and celebrating Teachers' Day, managing event budgets and coordination to deliver a successful and memorable occasion.

(2023) Organized a college-level Basketball Bonanza tournament, overseeing sponsorships, budgeting, and finances, while promoting teamwork and maintaining high team spirit throughout the event.

SKILLS & ABILITIES

Programming Languages	PYTHON, JAVA, C
Web Development	HTML5, CSS3, JAVASCRIPT(BASIC), PHP(BASIC)
Database & Backend	MYSQL, FIREBASE, MONGODB, DBMS CONCEPTS, APACHE SERVER HOSTING
Version Control	GIT, GITHUB(RELEASE/VERSION CONTROL)
Cloud & AI Platforms	GOOGLE CLOUD CONSOLE, VERTEX AI, CHATGPT
Office Productivity	MS OFFICE SUITE, LATEX (OVERLEAF), CANVA
Tools & IDEs	ANDROID STUDIO, VS CODE, GIT BASH, POSTMAN
Operating Systems	WINDOWS 10/11, LINUX (UBUNTU)

Achievements

- NCC B Certificate (2023–2025)
- Basketball National Camp 2021
- Currently Senior Division 'C'
- Participated in college-level leadership events

PERSONAL SKILLS

- Agility & Adaptability
- Team Collaboration
- Attention to Detail
- Critical Thinking
- Positive Attitude
- Excellent Communication
- Quick Learner
- Willingness to Learn

HOBBIES

- Finance and Investment
- Reading Business Articles
- Exploring Tech Trends
- Basketball
- Photography
- Travelling

PERSONAL DETAILS

Gender	Male
Nationality	Indian
Languages	English, Bengali, Telugu & Hindi

COORDINATOR

2023 – **Training and Placement Coordinator,**
Present **CSE(Data Science)**

REFERENCE

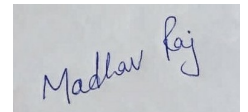
- Reference 1 **Name:** *Dr. Dinesh K. Pradhan,*
Email: *dinesh.pradhan@bcrec.ac.in,*
Designation: *Assistant Professor, Department of Information Technology,*
Dr. B.C.Roy Engineering College, Durgapur
- Reference 2 **Name:** *Prof. (Dr.) Subrata Nandi,*
Email: *snandi.cse@nitdgp.ac.in,*
Designation: *Professor,*
National Institute of Technology, Durgapur

DECLARATION

I hereby declare that the information furnished above are true and correct to the best of my knowledge and belief..

Date: 11 August, 2025

Place: Durgapur



Signature: