Madhav Raj

Curriculum Vitae

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DOB: May 10, 2004

CAREER OBJECTIVE

Seeking a challenging role in financial technology where I can leverage my expertise in programming, data analysis, and problem-solving to contribute to innovative projects and drive strategic solutions. Eager to apply my skills in a dynamic environment that values excellence and offers opportunities for professional growth and impactful contributions in the technology and finance sectors..

EDUCATION QUALIFICATION

(2022–Present) **Dr. B. C. Roy Engineering College, Durgapur (MAKAUT)**, B. Tech CSE (Data Science).
CGPA: 7.39/10 (upto 5th Sem)

(2019-2021) **P. C. High School, Samastipur (CBSE)**, *Senior Secondary (XII)*, Science.
Percentage: 85.00 %

2019 **Sri Prakash Synergy School, Peddapuram (CBSE)**, *Secondary (X)*.
Percentage: 88.00 %

Projects/Internships/Certification Programs

(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.

(Oct - Nov 2023) **Google Cloud Computing Foundations Certificate**, *Google Developer Student Club*.
Gained foundational knowledge in cloud computing with Google Cloud Platform (GCP), including services, deployment models, and cloud infrastructure. Completed practical labs and projects showcasing cloud solution skills.

(May - June 2024) **Prompt Design in Vertex AI**, *Google Developer Student Club*.
Designed and optimized prompts for AI models using Google Vertex AI. Focused on improving model accuracy and relevance through iterative prompt engineering and testing. Gained experience in leveraging Vertex AI for scalable and effective machine learning solutions.

(May - June 2024) **Development of GenAI Apps with Gemini and Streamlit**, *Google Developer Student Club*.
Developed generative AI applications using Gemini and Streamlit. Implemented interactive UIs and integrated AI models for real-time data processing and visualization. Enhanced skills in deploying AI-driven applications and creating user-friendly interfaces.

(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 2024 - Present)	**Intelligent Air & Noise Pollution Sensing and Alert Companion**, *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.

TRAINING

(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

MEMBER OF PROFESSIONAL BODIES

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

SKILLS & ABILITIES

Technology Risk	VULNERABILITY ANALYSIS, BASIC PENETRATION TESTING
Programming Languages	PYTHON, C, JAVA
Database	SQL, MYSQL, FIREBASE
Data Analysis	POWERBI, MS EXCEL, PANDAS, NUMPY
Techniques	DATA STRUCTURES, DBMS, MACHINE LEARNING, STATISTICAL ANALYSIS
Tools	MS OFFICE, LATEX (OVERLEAF), ANDROID STUDIO, NESSUS, GIT, WIRESHARK
AI	CHATGPT
Operating Systems	LINUX (INCLUDING PENETRATION TESTING DISTRIBUTIONS), WINDOWS (11/10/7/XP)
Cloud Platforms	GOOGLE CLOUD CONSOLE

PERSONAL SKILLS

- Hard Worker
- Team Management
- Critical Thinking
- Attention to Detail
- Dependable Character
- Positive attitude
- Easy Adaptive by Nature
- Fast Learner

HOBBIES

- Basketball
- Finance and Investment
- Travelling
- Photography

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,
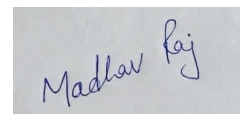**Dr. B.C.Roy Engineering College, Durgapur**

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: 29 August, 2024
Place: Durgapur

Madhav Raj

Signature: