



Bhumika K.R

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Objective

Electronics & Communication Engineering graduate transitioning into IT, blending hardware know-how with software finesse. Skilled in frontend development, building intuitive user interfaces, designing practical IoT systems, creating actionable Power BI dashboards, and implementing cloud-powered workflows. Passionate about lightweight machine learning for edge devices and crafting seamless, data-driven experiences across platforms.

Skills

- Programming: Python, C,C++
- Embedded Platforms: Arduino, ESP32 , Raspberry pi
- Machine learning pandas, numpy, scikit learn
- Data Analytics: Power BI, Tableau,SQL
- Web: HTML, CSS, JavaScript

Education

Nmit, Visvesvaraya Technology University

B-Tech - ECE, CGPA: 7 CGPA

Bangalore, Karnataka

Chethana PU College

PU - PCMC, 70%Percentage

Bangalore, Karnataka

Aug 2022

Soundaraya Central School

Class X - CBSE, 89 %Percentage

Bangalore, Karnataka

Jul 2020

Projects

Final Year project

Real-time Driver Drowsiness Detection System using Web interface

- ◆ college project "**Real-time Driver Drowsiness Detection System using Web interface**"
- ◆ To design the Importance of IOT and its application and implement an embedded system using Arduino for real-time monitoring and control and using Buzzler
- ◆ Utilized software and Basic tools of machine learning
- ◆ Led a team to design and implement IoT-based embedded system using Arduino and ESP32 for real-time monitoring and control, using HTML, CSS, JS - Frontend Web design UI
- ◆ Applied basic machine learning, improving system efficiency.
- ◆ Conducted tests to ensure accurate and reliable project performance.

Frontend Web Design

1) SwasthyaAI

Thrilled to share that our team TechBytes, emerged as Winners in the AI/ML domain at Decode SIH with OSCODE 2025! We built SwasthyaAI ,an AI-powered Pre-Health Diagnostic Assistant that integrates:

- Symptom-based disease prediction
- Personalized health tracking (BMI, BP, Sugar insights)
- Recommend hospitals for better access to care
- An AI chatbot for instant guidance

2) EduNabha

Thrilled to share our journey at the Smart India Hackathon (SIH) with our team project EduNabha: An AI-Powered Digital Learning Platform for Rural Students . As Team EduNabha, we developed a platform aimed at making education accessible, engaging, and inclusive for rural school students in Nabha. Proud to share our team project EduNabha: An AI-Powered Digital Learning Platform for Rural School Students for Nabha. As part of Team EduNabha, we built a solution to make education accessible, engaging, and inclusive for rural school students in Nabha. The platform provides:

- Offline-first access for low-connectivity areas
- Interactive and gamified learning experiences
- Personalized learning paths
- Teacher empowerment dashboards
- AI-powered chatbot support
- Local language content (English, Punjabi)

3)Power BI

Power BI

- Gained hands-on experience in Power BI, learning advanced techniques for data visualization and dashboard creation.
- Mastered the process of importing, transforming, and cleaning data using Power Query.
- Developed interactive and insightful reports, utilizing Power BI's DAX (Data Analysis Expressions) for advanced calculations.
- Explored different types of visualizations (bar charts, line graphs, maps, etc.) and learned how to connect to multiple data sources such as Excel, SQL databases, and web-based data sources.
- Gained knowledge in publishing and sharing Power BI reports and dashboards, making them accessible for collaboration.learned how to choose the most effective visualizations for different datasets

Certifications

- Web Development Championship Winner – OSCODE (Aug 2025) Web Development Certificate – OSCODE (Aug 2025) ODOOXNMIT, Hackathon Finalist (Sep 2025)
- Smart India Hackathon - finalist (Oct 2025)
- Strategy Formulation & Data Visualization – IIT Madras CCE
- JIRA Fundamentals Certificate – SKILL-LEARN (Feb 2025) (Software Tools & Professional Skills)
- Power BI Data Analytics Certificate Office Master
- TenTip-Certificate on PowerBI
- AWS Cloud Practitioner Essentials – Amazon Web Services (Apr 2025)
- AWS Security Fundamentals – Amazon Web Services (Apr 2025)

