Bhumika K.R

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OBJECTIVE

Passionate engineering student eager to apply academic knowledge and hands-on experience to contribute to innovative projects .

EDUCATION

B-Tech |Electronics and communication | 7.6 CGPA Aug 2022 -June 2026
NMIT, Visvesvaraya Technology University
PU | PCMC | 60 % Percentage 04, 2020- june,2020
Chethana PU College, State Board
Class X | 88 % Percentage
Soundarya Central School, CBSE 12, 2019 – April,2020

Workshop

VLSI Design Project

1.To gain practical VLSI knowledge using EDA tools like Cadence and Xilinx.
2. Performed schematic to layout conversion and physical design steps.
3. Conducted timing analysis and Verilog coding for FPGA design.
4. Implemented simulation and synthesis.
5. Verified functionality and generated gate-level netlists to validate circuit performance.

Additive Manufacturing Designing and Industry 4.0

1. Additive manufacturing (3D printing) creates complex designs layer by layer, transforming production.
2. Industry 4.0 integrates automation, digital technologies, and data exchange in manufacturing.
3. Together, they improve efficiency, customization, and innovation.
4. Tools like Fusion360 enhance design processes.
5. AI applications further optimize industrial operations.

Embedded system, machine learning and IOT

1. Designed and implemented IoT-based embedded systems
using Arduino and ESP32 for real-time monitoring and control.
2. Integrated sensors for temperature, water, and LED testing.
3. Applied basic machine learning with Edge Learn tools.
4. Improved system efficiency through machine learning.
5. Conducted tests to ensure accurate and reliable performance.

Raspberry Pi

1. Designed and implemented IoT-based embedded systems using
Raspberry Pi for real-time monitoring and control.
2. Developed the project using Raspberry Pi OS and programming languages.
3. Optimized the system design for improved efficiency.
4. Conducted tests and experiments to validate functionality.
5. Ensured accurate and reliable project performance.

Strategy formulation and data visualization

1. Data science extracts insights from structured and unstructured data.
2. Types of analytics include descriptive, predictive, and prescriptive.
3. Data visualization presents data graphically for clearer understanding.
4. Data science aids in business strategy formulation and decision-making.
5. A clear vision and mission guide its application across industries.

CERTIFICATION / TRAINING

1) **Additive Manufacturing Designing and Industry 4.0**

2) **IOT and raspberry Pi**

3) **Learntube by CareerNinja**
- Basic quiz Java
- basic quiz of python

4) **RINEX Entrepreneurship Cell**
Python course and frontend web development course

5) **Infosys springboard**
- Basics of web development
- Basics of python
- Basics of Java
- Fundamentals of data science

6) Centre for Outreach and Digital Education
Indian Institute of Technology. Madras
“Strategy Formulation and Data Visualization”

7) Blood donation certificate

8) VLSI Design system

9) Embedded system, machine learning and IOT

10) NXTWAVE
- 7 Days code challenge participation
- Web development :Html CSS SQL
- Basics of AI
- Basics of machine learning
- Basics of data science
- Introduction to cyber security