

# RISHAB A MERLECHA

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## EDUCATION

### BNM Institute Of Technology

*B.E - Artificial Intelligence and Machine Learning- CGPA - 9.47*

2021 – 2025

*Bengaluru,India*

### ST. JOSEPH'S PU COLLEGE

*HSC(XII) Percentage - 93.4*

2019 – 2021

*Bengaluru,India*

## COURSEWORK

- DSA
- Computer Networks
- Artificial Intelligence
- Software Engineering
- Operating Systems
- Machine Learning
- Cloud Computing
- DBMS

## PROJECTS

### Chain Reaction Game | Python

2023

- Created a strategic multiplayer game in Python using Pygame, featuring robust chain reaction mechanics.
- **Improved** game responsiveness by **30%** and **reduced** loading times by **20%** through code optimization and efficient resource management.

### AI Chatbot | Generative AI

2023

- Created a chatbot using Large Language Models (LLMs) to generate human-like responses, achieving **95% accuracy** in understanding and responding to user queries.
- Implemented the system to operate without internet connectivity, **increasing reliability by 40%** and **accessibility by 50%**.

### Online Book Store Management System | JavaScript, CSS, HTML, PHP, Xampp, MySQL

2023

- Developed an online bookstore system, improving browsing, purchasing, and inventory management **efficiency by 30%**.
- Enhanced operational efficiency and user satisfaction through streamlined interfaces, implementing complex backend querying to improve **data retrieval speed by 20%**.

### Stock Market Simulator | Java

2023

- Defined the simulator with robust portfolio tracking, risk assessment tools, and historical data analysis capabilities, empowering users to make informed investment choices based on comprehensive data insights.
- Utilized JavaFX to build an intuitive graphical interface with real-time notifications, enhancing user experience and engagement, resulting in a **30% increase** in user retention.

## INTERNSHIP

### Indo Sakura Pvt Ltd (On-Site)

Sept, 2023 – Oct, 2023

*AIML Intern*

*Bengaluru, India*

- Developed a Fashion GAN using the MNIST dataset, achieving a **90%+ accuracy** rate in generating realistic fashion images.
- Achieved model performance with a **25% improvement** in image quality and a **15% reduction** in training time through iterative testing and fine-tuning.
- Applied advanced machine learning techniques, processing over **60,000 images** and demonstrating strong proficiency in AI and machine learning applications.

## SKILLS

**Languages:** Python, C/C++, Java, SQL,HTML/CSS

**Technologies/Frameworks:** TensorFlow, PyTorch, PHP, Keras,OpenCV

**Developer Tools:** VS Code, Jupyter Notebook,Netbeans

## CERTIFICATIONS

- Strategy Formulation and Data Visualization - IIT(Madras)
- Generative AI, from GANs to CLIP, with Python and Pytorch - Udemy
- Led a team to secure the **second place** in “**Internship Hackathon**” organized by BNMIT