

Rakesh Sah

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Objective

Aspiring software developer and final-year CSE student with hands-on experience in machine learning and IoT. Passionate about building practical solutions and eager to contribute to real-world tech projects.

Abstract

Strong Engineering background with fundamental skills in **Python,HTML,CSS & JavaScript** with latest technologies. Completed a internship at MSME, Guwahati at **ML** with **Python**

Experience in Agile/Quality tools such as **Git hub, Bootstrap,Live Server extension.**).

Working attitude of **test driven, automated & separation of concerns**

Technical Skills

- Programming : **Python, HTML, CSS, JavaScript.**
- tools & Technologies : Basic ML, **IoT** Sensors, Data Preprocessing.
- Core CS : OOPS Concept, OS Concepts, Algorithm & Data structure & Algorithm.
- Database : **My SQL**
- **Excel**
- **Statistics** basic
- **GIT** and **GIT-HUB**

Soft Skills

- **Communication Skills-** Explaining your code or logic clearly
- **Basic Project/Task Ownership**
- **Professionalism** - Respecting meetings, deadlines, team members
- **Adaptability** - Learning new frameworks or languages as per project needs
- **Resilience** - not giving up when you face bugs or blocker
- **Critical Thinking** - questioning and improving existing code or ideas

Internship

July 2024

MSME, Guwahati

Number plate detection using **Machine Learning**

- **Description of the Project :** Developed a Python-based system to detect and recognize vehicle number plates from images using Machine Learning and **image processing** techniques. Processed and trained ML models with over **1000** images for number plate detection.
- **Gained** practical exposure to Machine Learning concepts and applications.
- **Enhanced** analytical thinking and problem-solving abilities during hands-on task.
- Worked on Image processing techniques, **Real-time detection, data preprocessing**, model training, and deployment.

Projects

Team work project as the Final year project for B.Tech, CSE

- **Developed** an IoT-based food waste monitoring system using **Arduino UNO** and **ESP8266 Wi-Fi** for real-time environment tracking.
- **Integrated** 5+ sensors (gas, temperature, humidity) to detect spoilage conditions and sent alerts via **cloud** connectivity
- **Reduced** potential food waste by enabling early spoilage detection through **real-time audio-visual alerts**.
- **Processed** continuous sensor data and displayed system using **16x2 LCD** interfaces.
- **Enhanced** food safety by creating a **low-cost scalable-system suitable** for household and commercial storage.
- **Proposed** future improvements with **AI-based** spoilage prediction and mobile app integration for user notifications.

Retail Sales Performance dashboard: Designed and developed an interactive sales performance dashboard using Power BI to analyze and visualize retail data. Independently cleaned and transformed raw sales data using Excel and SQL to identify trends in revenue, top-selling products, and regional sales performance. Implemented KPIs and visual elements to provide insights for data-driven decision-making. Focused on improving business understanding through data storytelling and visualization.

Education

Bachelor of Technology CSE

Nagaland University , Kohima

Obtained the B.Tech degree in C.S.E with CGPA 7.02/10

Aug 2020 — Jun 2025

Higher Secondary HSSLC

Kendriya Vidyalaya, Khatkhathi

73 % (CBSE)

May 2018 — May 2020

Secondary HSLC

Christian Hr. Sec. School, Dimapur

74.66 % (NBSE)

jan 2010 — May 2018

Extra Curricular Activities

- Attended workshop on Biologically Inspired Techniques in Many-Criteria Decision making held at Nagaland University in collaboration with Tetso Collage.
- Got 2nd position(2 member) in Quiz held by Nagaland University at Techaura fest.
- Participated in debate held by Nagaland University at Zona fest.

Interest

- Full - stack development
- Programming
- Solving real-world problem
- Business analyst
- Data analyst

References

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LeetCode ID: Rakesh66604

GIT-HUB ID: Rakesh66604