

Rajiv Choudhury

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EXPERIENCE

Software Engineer

Samsung R&D Institute India, Delhi

Jul 2024 – Present

Noida, UP

- Implemented robust APIs for commercial TV applications utilizing C# and C++, streamlining feature integration processes, which enhanced user experience by decreasing load times across platforms by 30 seconds.
- Collaborated with cross-functional teams to enhance application performance, improving efficiency by 20%.

Research Intern

Centre for Networked Intelligence, IISc

Jan 2024 – Jun 2024

Bengaluru, KA

- Conducted experiments that outperformed Linux Governors in terms of energy efficiency by a value of **80%**.
- Collaborated with **IBM Research** for conducting research experiments reducing **carbon footprints** upto 80% validating with results.
- Achieved **92%** accuracy while developing **Logistic Regression & Neural Networks** for harnessing **GPU computation** from scratch.

EDUCATION

Indian Institute of Information Technology, Guwahati

B.Tech in Computer Science Engineering, Grade: **9.13**

Guwahati, AS

Dec 2020 – May 2024

MBS Public School

Class XII, Grade: **90.80%**

Bhubaneswar, OD

Jun 2018 – Mar 2020

PROJECTS

Classification Simulation

Machine Learning Project

Python, Tkinter

- Engineered a prototype with **TRL-4** to classify brain signals (**EEG**) into distinct classes using **MLPClassifier** from **Scikit-learn** which helps patients to communicate with environment.
- Utilized **EMOTIV INSIGHT** hardware for real-time data collection which classifies with **90%** accuracy with test data.

Fashion Recommender

Machine Learning Project

Python, Streamlit, TensorFlow

- Created an application to recommend fashion products using a pre-trained **ResNet model** trained on over 1 million images.
- Implemented a K-nearest Neighbors algorithm for image similarity with **100%** image prediction accuracy.

Employee Management System

Full-Stack Application

Java Swing, MySQL

- Developed a system to manage employee details with a GUI built using Java Swing, capable of handling data for over 500 employees using MySQL.

TECHNICAL SKILLS

Programming Languages: Python, C++, JAVA, CUDA C++, C#

Deep Learning Frameworks: TensorFlow, PyTorch

Libraries & Tools: NumPy, Pandas, Scikit-learn, Git, Docker

ACHIEVEMENTS

- Paper accepted at **ACM E-Energy 2024** conference, Singapore.
- Top 5% in the Computer Science Department at IIITG.
- Paper presented at IoNT workshop of **DCOSS IoT** conference, Abu Dhabi.