# Saumya Kumar Rai

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## Skills

**Languages:** C++, Python, Java, HTML5, CSS, JavaScript, SQL
**Technologies:** AWS, Node.Js, MongoDB, ReactJS
**Tools:** Git, Github

## Work Experience

**CODSOFT, Remote** Oct 2023 – Nov 2023
***Machine Learning Intern***

- Developed three machine learning projects using Python to predict model accuracy.
- Created a Fraud Detection mode with a 98% accuracy using Python Libraries.
- Built a Customer Churn Prediction model to identify at-risk customers likely to cancel their subscriptions.
- Developed a Spam SMS Detection model to enhance security in electronic credit card transactions.
- Tech stack: Python, Pandas, Numpy, Matplotlib, Nltk

**Full Stack Development** Sept 2023 - Dec 2023
***Summer Training, New Delhi, India***

- Implemented and hosted an Amazon clone, focusing on backend integration and enhanced frontend features.
- Developed components for the admin page, creating various attributes to improve functionality and user experiences.
- Tech stack: HTML, CSS, JavaScript, Node.js, Express.js, MongoDB

## Education

**VIPS-TC, Guru Gobind Singh Indraprastha University** Dec 2021 - May 2025
B.Tech in Artificial Intelligence and Machine Learning. ***CGPA: 7.8/10***

Relevant Coursework: Object Oriented Programming, Databases, Discrete Mathematics, Data Structures and Algorithms, Operating Systems, Computer Networks, Machine Learning, Data Mining, Advance Data Structures and Algorithms, Information Retrieval, Image Processing

## Project Work

- **Credit Card Fraud Detection:** Developed and implemented a machine learning model using Python to identify fraudulent credit card transactions. Achieved 98% accuracy by employing advanced algorithms and optimizing feature selection. Significantly enhanced transaction security by accurately detecting potential fraud. Using Python, Pandas, Numpy, Sklearn, Matplotlib, Seaborn.
- **Customer Churn Prediction:** Developed a predictive model using Python to identify customers likely to cancel subscriptions. Utilized machine learning techniques to analyze customer data, achieving high accuracy in churn prediction. Enhanced retention strategies by providing actionable insights into at-risk customers. Using Python, Pandas, Numpy, Sklearn, Matplotlib, Seaborn.
- **Spam SMS Detection:** Developed and implemented a model to identify and filter spam SMS messages using Python. Using Python, Pandas, Numpy, Sklearn, Matplotlib, Seaborn.

## Extracurricular Activities

- Engaged in hardware projects, including developing a **Water Overflow Management System** that automatically cuts power when the water level reaches a certain threshold.
- Served as an **NCC cadet**, demonstrating leadership, discipline, and commitment through various training programs and community service activities.