

# Sahaj Singh

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## SUMMARY

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Recent college graduate with a deep passion for Machine Learning and Deep Learning, eager to apply my knowledge and creativity to solve challenging problems and contribute to innovative projects in a dynamic team environment.

## EDUCATION

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### University of Maryland

Bachelor of Science, Computer Science(ML)

College Park, MD

## PROJECTS

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### Chest X-ray classification with CNNs

- Developed and implemented a Convolutional Neural Network (CNN) model using PyTorch to classify chest X-ray images of 'normal' and 'pneumonia'. Leveraged techniques commonly used in object detection for efficient data preprocessing and dynamic feature engineering and achieved a validation accuracy of 86%.

### CustomerChurnPrediction(Telco)

- Developed and implemented a deep neural network using PyTorch to predict customer churn from the Telco Customer Churn dataset. Conducted extensive exploratory data analysis and preprocessing, including handling missing values and converting categorical variables to numerical ones. Utilized techniques such as batch normalization and dropout for improved model performance. Achieved a training loss that steadily decreased over 100 epochs, indicating effective learning.

## WORK EXPERIENCE

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### Infinite Solutions

Intern

Rockville, MD

Jun 2023 - Aug 2023

- Processed and analyzed healthcare tickets from Molina, verified member rate codes resolved issues, and collaborated with the healthcare team to ensure accurate data.
- Read Python and Excel to investigate discrepancies in member data, ensuring data integrity by addressing overlapping information.

### International Software Systems

Intern

Greenbelt, MD

December 2022 - January 2022

- Added information about the company's assets in the software called IATS.
- Installed Windows and other operating systems like Linux-Ubuntu and Kali on their systems.
- Connected hardware devices to their domain.

## SKILLS AND RELEVANT COURSEWORK

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**Languages:** C/C++, Java, Python, Ruby

**Courses:** Algorithms, Machine Learning, Deep Learning, Computer Vision