Ritik Malhotra

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Github:https://github.com/ritikmalhotra

Education

Jaypee Institute of Information Technology **2017 - Expected July 2021 CGPA: 7.7**
Bachelors in Technology, Electronics and Communication Engineering

Kendriya Vidyalaya Vigyan Vihar **2017**
Senior School Certificate (CBSE) **Percentage: 82.2**

Kendriya Vidyalaya Vigyan Vihar **2015**
Secondary School Certificate (CBSE) **CGPA: 9.0**

Internships

Internshala Machine Learning Training **May 2020 - July 2020**

- The task was to make a machine learning model that can predict the churn of the customer, for a bank, whose account balance is likely to be below the minimum account balance policy of the bank.
- The model was built using the Random Forest learning method which acquired an AUC-ROC score of 0.85 and a precision score of 0.77 over the logistic regression learning method (baseline model) which had an AUC-ROC score of 0.78 and precision score of 0.66.

Bharat Electronics Limited / Summer Intern **May 2019 - July 2019**

- Study of linear phase antenna and Rohini radar.

Projects

Digital Ushering System
Advisor: Mrs. Bhawna Gupta January 2020 - April 2020

- Developed a system that involves affixing LEDs to the seats, which glows when the QR code corresponding to that seat is scanned with the help of the QR code scanner placed at the entrance of the chamber. This project aims at simplifying the ushering systems that are traditionally followed in places like conference rooms, restaurants, examination halls, etc. We have incorporated an RF Transmitter receiver pair for wireless communication.

Speckle Removal In Ultrasound Images
Advisor: Mrs. Bhawna Gupta August 2019 - November 2019

Removed speckle noise in ultrasound images using non-local means filter and automated clustering.

Digit Recognition

- Classification machine learning models (such as K-nearest neighbor and logistic regression) and unsupervised machine learning models (K means clustering model) were trained to recognize the digits (0 to 9) using the MNIST data set.

Technical Skills

Programming Languages: Python, C++/C, MATLAB.
Machine Learning Tools/Libraries: NumPy**,** Pandas, Scikit-Learn, Matplotlib.
Database language: SQL.
Operating System: macOS, Windows.
Software Packages: Microsoft Office; Apple Pages, Numbers, Keynote; Google Docs
Relevant courses: Statistics, Probability and Random Processes; Differential and Vector Calculus.