# ANKUSH WALIA

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## EXPERIENCE

### Full Stack Data Scientist

**Coursera**

January 2022 - currently Online

- Worked on Core Projects involving, Handling data, Cleaning Data, Data Visualization, Communicating the data, and building ML models to make predictions on the data.

### Machine Learning

**Coursera**

April 2022 - currently Online

- Supervised Learning, worked on SL to train a model to recognize the pattern in given data more efficiently.
- worked on supervised learning models called SVMs, which analyze data used for classification and regression analysis.

### Natural Language Processing Specialization

**Coursera**

January 2023 - currently Online

- Implementing sentiment analysis, finishing analogies, and translating words, word vectors, and naive Bayes, using logistic regression. Autocorrect, autocomplete, and part-of-speech word tagging are implemented using dynamic programming, hidden Markov models, and word embeddings.

## PROJECTS

### Project 1

**House Prediction Regression Model**

A "Linear Regression" model for predicting the price of houses in Bengaluru state based on different parameters like location size and BHK. The aim of this project was to build a model which takes the parameters of a house and gives the most probable price of that house.

### Project 2

**Customer Segmentation using K-Means Clustering with Python**

An "Unsupervised Learning" algorithm to perform a customer segmentation on the basis of their annual income and spending score. The main goal of this project was to visualize different types of clustering group of the customer to enhance the sales benefits .

### Project 3

**Deep Learning Project– Handwritten Digit Recognition**

The project consists of a Deep learning model based on classification which determines and forecasts the outcome of the number fed into the model using the available variety of handwriting styles on the basis of mnist dataset.

### Project 4

**Diabetes Prediction model**

This Project seeks to predict diabetes using different supervised machine learning techniques, SVM and Logistic Regression. Additionally, this has a useful approach for end-to-end deployment using Streamlit and machine learning algorithms.

## EDUCATION

- M.Sc Mathematics (Computational Mathematics) - 8.02 CGPA
  **Chandigarh University**
  September 2022 – Present
- B.Sc Mathematics - 8.5 CGPA
  **Himachal Pradesh University**
  2021
- Secondary - 78%
  **Central Board of Secondary Education**
  2018

## TECHNICAL SKILLS

MATLAB | MS-Office | TensorFlow | Tableau | Power BI | LaTeX

C++ | R, Rstudio | Python | MySQL

## ACHIEVEMENTS

- District level football player at Government Polytechnic, Sundernagar under 16 age group.
- **Certification:** "Using Python to Interact with the Operating System", *Google*.
- **Certification:** "Supervised Machine Learning: Regression and Classification", *Stanford| Online*.
- **Certification:** "Advanced Learning Algorithms" , *Stanford| Online*.

## PORTFOLIO-LINKS

- Machine-Learning-Projects
- Portfolio-Project (Data Science)

# PUBLICATIONS

**Review paper**

**Paper title:** Solution of Non-Linear Equation Using Newton Raphson and Quasi-Newton Method and Application in Engineering Field.

**Journal:** "Mathematical Statistician and Engineering Applications, ISSN: 2094-0343"
Vol. 71 No. 4 (2022)

Publication: 19 August 2022

# HOBBIES

- Reading and writing.
- Playing and listening to Music.
- Exploring places.