

# HIMANISH CHOWDHURY

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## EDUCATION

**Bachelor of Technology, Computer Science & Engineering**  
University of Engineering and Management (UEM), Jaipur | Jaipur, Rajasthan

2020-2024  
CGPA: 7.52

## PROJECTS

### Brain Tumor Classification Using CNN and Vision Transformer (ViT)

December 2023

- Developed a brain tumor classification system utilizing a combination of **Convolutional Neural Networks (CNN)** and **Vision Transformer (ViT)** architectures, including various types of ViT models. Departing from traditional computer vision approaches that involved to feature engineering followed by **machine learning** models.
- The performance metrics including accuracy, precision, F1 score and recall were evaluated across various datasets. The results showcased the superior predictive capabilities of certain ViT models over traditional CNN architectures, with **93%** accuracy with the best-performing ViT model in identifying Brain tumors datasets.

### Retinal Disease Classification and Analysis

June 2023

- Developed an accurate retinal disease prediction model using **machine learning** techniques, analyzing a dataset of over **600** retina images. Achieved an impressive **96%** accuracy rate by implementing a **convolutional neural network (CNN)** model.
- Processed and utilized a dataset comprising over **medical** images to train and validate the **machine learning** models to used healthcare application development.

### SMOTE for Imbalanced Classification with Python

December 2022

- Implemented **Synthetic Minority Oversampling Technique (SMOTE)** technique with AdaBoost technique in Python, resulting in a significant improvement of up to **96%** in classification accuracy for imbalanced datasets.
- Utilizing more neighbors in k-NN leads to greater benefits with SMOTE to improvement in classification accuracy to considering F1 and F2 scores for a more comprehensive evaluation.

## EXPERIENCE

### Codsoft | Data Science Intern | Python | [Link](#)

August 2023

- Conducted in-depth analysis on **5** diverse datasets using **Python**, employing advanced **data analysis** techniques to extract valuable insights.
- Demonstrated proficiency in utilizing Python libraries such as **pandas**, **NumPy**, **matplotlib**, and **scikit-learn**, contributing to a **30%** increase in workflow efficiency.
- Successfully completed the internship, surpassing accuracy benchmarks in predictive modeling tasks and showcasing strong capabilities in **data science** and machine learning.

## SKILLS

**Programming Language:** Python, Java.

**Web Technology:** HTML, CSS

**Skills:** SQL, DBMS, Data Structure and Algorithm

**Familiar With:** Google Colab, Oracle, Jupyter Notebook

**Areas of Interest:** Big Data, Data Science, Machine Learning

## COURSES

- Data Base Management System and Software Testing completed by **IIT Kharagpur**
- Python For Data Science and The Joy Of Computing Using Python completed by **IIT Madras**
- Introduction to Java, Google Data Analytics completed by **Coursera**

## PROFILE LINK

- LinkedIn:** <http://www.linkedin.com/in/himanishchowdhury>
- GitHub:** <https://github.com/Himanishchowdhury>

## DECLARATION

I am Himanish Chowdhury hereby declare that all the above mentioned in this resume are true.