



# ANKIT SINGH

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## Education

### IIT Naya Raipur

B.Tech in Data Science and Artificial Intelligence

8.42/10

Dec. 2020 – June 2024

### Delhi Public School, Bhilai

CBSE - Class-XII

91.8%/100

May. 2005 – May 2019

## Experience

### Mentee

May 2022 – July 2022

Microsoft

- Built a **Data Analysis App** for automotive industry to demonstrate how the automotive Industry could harness data to take informed decisions.
- Used Streamlit as frontend and k-means clustering algorithm at backend of the program.
- Demonstrated the use of data analysis in identifying and visualizing most popular car specification combinations (cost, engine type, fuel, mileage, etc.).
- Segmentation of cars into different clusters based on these combinations.

## Projects

### Masked Face Recognition | Python, Tensorflow

- Created a dataset which contains images with variations in pose, illumination, resolution, and the variety of masks worn by the subjects.
- Created a Multi Output CNN model for classification of images.

### Multi-Doc Chatbot | Python, Streamlit, Langchain, FAISS, Hugging Face

- Created a multi-pdf chatbot that enables us to perform question answering task on our own custom knowledge base using semantic search, vector database and an open source large language model.
- Used Llama 2 model provided by hugging face for question-answering, FAISS as the vector database to store the vector embeddings, and langchain to link these components together.

### Healthy.ai | Python, Flask, Sklearn, Tensorflow

- Allows users to check their chance of having one of the following diseases: Liver Disease, Pneumonia, Kidney Failure, Diabetes, Stroke, Heart Disease.
- Each Disease has it's own page with an overview and symptoms that patient may have, and also the prediction model information and required parameters that user must provide.

## Technical Skills

**Languages:** Python, C/C++, SQL

**Frameworks/Libraries:** Flask, Streamlit, Scikit-learn, Pandas, NumPy, Plotly

**Developer Tools:** Linux, Git, VS Code, Visual Studio, PyCharm, IntelliJ, Jupyter Notebook

## Soft Skills

Communication, Critical Thinking, Leadership, Problem Solving, Team Work

## Achievements

- Selected for **Microsoft Intern Engage 2022**
- Selected for **Amazon Machine Learning Summer School 2023**