**I AM Dhruv Saxena**

**A Data Scientist**

A Data Science Enthusiast, with a Passion for Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, Generative AI and Creating Stuff using Artificial Intelligence.

Currently studying master in Artificial Intelligent and Robotics from University of Hertfordshire situated in London (Hartfield) United Kingdom.

First and foremost, I love building machine learning models. I was curious about machines and robots from my childhood I' am very curious about working principle of machine and robots. Secondly, I love to Machine learning should be the first thing to look after if we want to comfort ourselves and some humanity :P. I want to focus my career on machine learning and its applications to create innovative ideas and machines.  
  
I consider myself a self-learner who is always interested in learning new technologies, understanding how things work, and believing in oneself.

RESUME LINK: <https://drive.google.com/drive/folders/1P2r_v4yMXBHnez3eOwMe8k2DW94AVf0C?usp=sharing>

**Some Things I'm Good At!**

**Python, HTML, CSS, MySQL & Vector DB**

I enjoy doing data prediction and machine learning code using python and along with SQL/MongoDB.

**Machine Learning**

An application of artificial intelligence that includes algorithms that parse data, learn from that data and then apply what they’ve learned to make informed decisions. Some Machine Learning algorithms I'm good in -- Regression Algorithms, Ensemble Learning, Bagging and Boosting, Clustering Algorithms etc.

**Deep Learning**

A subfield of machine learning that structures algorithms in layers to create an ‘artificial neural network’ that can learn and make intelligent decisions on its own. Some Deep Learning algorithms I'm good in -- ANN, CNN, RNN etc

**Natural Language Processing & Generatvie AI (LLM)**

Generative AI generates new data based on training samples. Generative models can generate Image, Text, Audio, Videos etc. data as output. Some NLP algorithms and LLM I'm good in -- LSTM, GRU, Encoder-Decoder, Transformer, OpenAI, Gemini AI, HuggingFace Model etc. and LLM based frameworks include -- Langchain and Llamaindex.

**Jupyter Notebook, Google Colab & Vs Code**

I'm skilled in the field of Artificial Intelligence and Data analysis having strong fundamentals and continuous learning in the field of Deep Learning.

**Cloud (AWS, GCP, Azure), Git, Docker, LLMops & MLops**

I have build up skills that work with machine learning and regularly use Github, Docker and strike to improve CI/CD workflows.

**Some Things I've Created!**

**Machine Learning Projects**

[**Student-Marks Prediction**](https://youtu.be/oE4ZEbMpMdE?si=_E93ysDfrFR_yoHA)

This model aims to predict student’s marks using linear regression. The idea behind this analysis is to predict the marks of students. The project provides a quick and easy way to predict student mark based on the how many hour they study.

**CODE: <https://github.com/Dhruv-saxena-25/ml_project>**

[**US-Visa Approval Prediction**](https://youtu.be/5N17dtFN7Lk?si=twX5Y9sIFi9odOuS)

Dive into 'US Visa Approval Prediction' a data-driven journey using predictive analytics. Analyze historical data, extract insights, and employ machine learning to create a model predicting visa approval.

US VISA: https://github.com/Dhruv-saxena-25/Us-Visa-Approval-Prediction

[**Source Code**](ahttps://github.com/Dhruv-saxena-25/Us-Visa-Approval-Prediction) [**Demo Video**](https://youtu.be/5N17dtFN7Lk?si=twX5Y9sIFi9odOuS)

[**Movie Recommendation System**](https://www.youtube.com/watch?v=j3R8r0y6NRQ)

A movie recommendation system is a fancy way to describe a process that tries to predict your preferred items based on your or people similar to you. In layman’s terms, we can say that a Recommendation System is a tool designed to predict/filter the items as per the user’s behavior.

[**Source Code**](ahttps://github.com/Dhruv-saxena-25/movie_recommend) [**Demo Video**](https://www.youtube.com/watch?v=j3R8r0y6NRQ)

[**Insurance Premium Prediction**](https://www.youtube.com/watch?v=42bxGQGHEdM)

The goal of this project to give people an estimate of how much they need based on their individual health situation. After that, customers can work with any health insurance carrier and its plans and perks while we keeping the projected cost from our study in mind. This can assist a person in concentrating on the health side of an insurance policy rather than the ineffective part.

[**Source Code**](ahttps://github.com/Dhruv-saxena-25/insurance_internship) [**Demo Video**](https://www.youtube.com/watch?v=42bxGQGHEdM)

**Deep Learning Projects**

[**Chest-Cancer Prediction**](https://www.youtube.com/watch?v=U34STxK_rgA)

Revolutionize healthcare with our data science project. Accurately classify chest diseases from CT scan images, enhancing early diagnosis and treatment. The aims of this model to predict Chest Cancer in person using Neural Network.

[**Source Code**](ahttps://github.com/Dhruv-saxena-25/Chest-Disease-Classification-from-Chest-CT-Scan-Image) [**Demo Video**](https://www.youtube.com/watch?v=U34STxK_rgA)

[**Industry Safety Detection (Yolov7)**](https://youtu.be/s2BLVo-LMI4)

There have been various accidents in construction sites, due to the lack of safety equipment’s for workers. The aim of this project was to detect safety equipment’s on a worker, which can be further used for tracking and triggering alarm (safety monitoring) in future.

[**Source Code**](ahttps://github.com/Dhruv-saxena-25/Industry-Safety-Detection-using-Yolov7) [**Demo Video**](https://youtu.be/s2BLVo-LMI4)

[**Automatic Number Plate Recognition System 🚗**](https://www.youtube.com/watch?v=EMJwK_Hwgkc)

Automatic Number Plate Recognition is a technique designed to read vehicle number plates without human intervention using high speed image capture with supporting illumination, detection of characters within the images provided, verification of the character sequences as being those from a vehicle numberplate and OCR.

[**Source Code**](ahttps://github.com/Dhruv-saxena-25/Car-number-plate) [**Demo Video**](https://www.youtube.com/watch?v=EMJwK_Hwgkc)

[**Sign Language Detection**](https://youtu.be/8cHWQ-gax7o)

Sign Language Recognition is a computer vision and natural language processing task that involves automatically recognizing and translating sign language gestures into written or spoken language. The goal of sign language recognition is to develop algorithms that can understand and interpret sign language.

[**Source Code**](ahttps://github.com/Dhruv-saxena-25/Sign-Language-Detection) [**Demo Video**](https://youtu.be/8cHWQ-gax7o)

**Natural Language Processing and Generative AI (LLM) Projects**

[**Hate Speech Detection**](https://youtu.be/n2eIlGLy1DQ)

Hate speech is one tool that a person or group uses to let out feelings of bias, hatred and prejudice towards a religion, race, ethnicity, ancestry, sexual orientation, gender or disability thereby spreading hatred.

[**Source Code**](ahttps://github.com/Dhruv-saxena-25/Text_classification) [**Demo Video**](https://youtu.be/n2eIlGLy1DQ)

[**E-Commerce Chatbot**](https://youtu.be/kJe7wf53xmA)

Welcome to the E-Commerce Chatbot project! This chatbot is designed to assist users with their online shopping experience by providing product recommendations, answering questions, and assisting with various inquiries related to the ecommerce store.

[**Source Code**](ahttps://github.com/Dhruv-saxena-25/E-Commerce-Chatbot) [**Demo Video**](https://youtu.be/kJe7wf53xmA)

[**MCQ Test Generator Chatbot**](https://youtu.be/5dJk2Q7RmMg)

This is a tool for generating multiple-choice questions (MCQs) for any field based on provided subject. It leverages the power of "Gpt-3.5-turbo", a state-of-the-art language model developed by OpenAI, to extract relevant descriptions from PDF documents and automatically generate MCQs based on the extracted content.

[**Source Code**](ahttps://github.com/Dhruv-saxena-25/Automated-MCQ-Generator-Using-Langchain-OpenAI) [**Demo Video**](https://youtu.be/5dJk2Q7RmMg)

**Some Things About Me!**

👋 Hello, I'm Dhruv Saxena, and I'm passionate about the world of data. I'm actively seeking new opportunities in the fields of Machine Learning, Data Science, and Computer Vision.

🔑 Key Skills: Programming (Python 🐍) | Databases (MySQL 📂, MongoDB 💽) | APIs (Flask) | Statistics and Probability 🧮 | Machine Learning (Scikit-learn 🤖) | MLOps (GitHub Actions, Docker 🐬, SageMaker) | Natural Language Processing 📜 | Version Control (Git, GitHub, Gitlab) | Cloud Platforms (AWS ☁, Azure ☁) | Computer Vision | Large Language Models.

🚀 My journey has been driven by a relentless curiosity to uncover insights from data and solve real-world problems. With a strong foundation in data analysis and machine learning, I've had the privilege of working on projects such as 'US-Visa Approval Prediction' and 'Industry Safety Detection' and Many more. These experiences have equipped me with the tools and knowledge to create predictive models, work with data, and build user-friendly web applications.

🔬 I've also ventured into the world of MLOps and CI/CD pipelines, ensuring that my solutions are scalable and efficient.

💡 If you're looking for a data-driven problem solver with a knack for data visualization and a passion for innovation, I'd love to connect and explore potential opportunities.

🤝 Let's connect and collaborate in the exciting world of data science and machine learning. Feel free to reach out, and let's explore how we can work together to drive insights from data.

**Get In Touch**

My Email: [**dhruvsaxena.uk@gmail.com**](mailto:dhruvsaxena.uk@gmail.com)

Social:

LinkedIn: <https://www.linkedin.com/in/dhruv-saxena-25-08-2000aug/>

Portfolio: <https://dhruv-saxena-25.github.io/web/>

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MARKS IN SEMISTER-1

|  |  |  |  |
| --- | --- | --- | --- |
| Module | Credits | Grade | Grade Points |
| Neural Networks and Machine Learning | 30 | 81 | 4.5 |
| Preparation for Placement | 0 | PASS(P/F) |  |
| Theory and Practice of Artificial Intelligence | 30 | 70 | 4 |

Vaishnavi Saxena is best life partner of Dhruv Saxena. He loves her a lot. We meet on first on 08 September 2023.

Vaishanavi is also known as Cherry.