Divyansh Aggarwal

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# Objective

Data science and Artificial Intelligence enthusiast seeking to leverage advanced analytical skills and machine learning expertise in a data science role. Dedicated to utilizing data-driven insights to solve complex problems and drive business success.

# Skills & abilities

**Technical** — Python, JavaScript, HTML, CSS, DBMS, SQL, Machine learning, Deep Learning, Transformers, Data analytics, Data science, NLP, CNN, Statistics, OOPS, LLMs, RAG.

**Soft Skills** — Communication, Teamwork, Problem-solving, Statistical Analysis.

**Tools** — Streamlit, Flask, MySQL, Pandas, FireDucks, NumPy, TensorFlow, Sklearn, MySQL, Jupyter, VSCode, PowerBI, MLFLow.

# Experience

**Vreendaar IT Solutions** Oct 2023 – Jan 2024

Data Science Internship, Remote

•Learn Pandas, NumPy, Python, Machine Learning, and TensorFlow.

•Utilized over 4,634 images of unhealthy potato leaves from Kaggle’s Plant Village database, employing various trained models for recognition and classification.

•Achieving 99 % accuracy on testing data (25% of the dataset)

**Virtual Internship BCGX** 2024

Data Science Intern, Remote

•Completed a customer churn analysis simulation for XYZ Analytics, demonstrating advanced data analytics skills.

•Engineered and optimized a random forest model, achieving an 85% accuracy rate in predicting customer churn.

•Completed a concise executive summary for the Associate Director, delivering actionable insights for informed decision-making based on the analysis.

# Projects

[Bridge Collapse Prediction 🔗](https://github.com/Divyansh1217/Bridge-predictor)  April 2024

• Developed a predictive model for bridge collapse analysis, leveraging historical bridge data and structural parameters to assess risk levels. The model identifies critical factors such as material degradation, load capacity, weather impact, and past maintenance records to predict potential failures. The goal was to enhance infrastructure safety by providing early warnings for at-risk bridges. With accuracy of 96%.

• Technology used: Machine Learning, Flask, Python, HTML, CSS, JS, MLFlow.

• Algorithms used: Logistic Reg, SVM, Decision Tree, Random Forest, XGBOOST, ANN.

[**Video-Chaptering-and-Analysis** 🔗](https://github.com/Divyansh1217/Video-Chaptering-and-Anal) July 2024 – present

• Developed an innovative system for automatically chaptering and analysing videos from YouTube. The system processes video content to extract key segments, generates video chapters, and performs sentiment analysis to provide insights into the tone and content of each chapter.

• Users can input a YouTube video URL, and the system extracts the video transcript, performs sentiment analysis on the script, and divides the video into meaningful chapters based on the content and context. This feature makes it easier for users to navigate videos, especially for educational or informational content.

• Technology used: Machine learning, NLP, Streamlit, Python.

[**Text Generation Model Using LSTM** 🔗](https://github.com/Divyansh1217/Text-Generation-Model) January 2024 – present

• Built a model using LSTM for text generation of the Constitution of India.

• It helps to predict the next word using it

• It has taken 5hrs to train on 100 epochs.

• Technology used: Python, NLP, Deep Learning, Machine Learning, Streamlit

# CERTIFICATES

* [NLP by GUVI 🔗](https://www.guvi.in/verify-certificate?id=05a75271H7n2Y398t0)
* [Kaggle Deep Learning🔗](https://www.kaggle.com/learn/certification/divyanshagg27/intro-to-deep-learning)
* [Accenture Data Analytics and Visualization🔗](https://github.com/Divyansh1217/Data-Analytics-and-Visualization-Completion-Certificate)
* [Python Zero to Hero by GUVI🔗](https://github.com/Divyansh1217/Python-Hero-to-Zero)
* [DALL-E AI by GUVI🔗](https://github.com/Divyansh1217/Dalle-Ai)
* [ChatGPT for Programmers by GUVI🔗](https://github.com/Divyansh1217/ChatGptforprogrammer)