DHWANIL CHAUHAN

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🔗 Linkedin ⬤ GitHub G Google Scholar 🌐 Portfolio

Education

Purdue University	**Aug. 2024 – May 2026**
Master of Science in Computer Science(GPA:-/4)	*Indiana, USA*
Charotar University of Science and Technology	**Sep. 2020 – May 2024**
Bachelor of Technology in Computer Science and Engineering(GPA:3.7/4)	*Gujarat, India*

Technical Skills

Languages: Python, Java, C++, HTML/CSS, JavaScript, SQL
Frameworks & Libraries: Django, Flask, TensorFlow, PyTorch, Streamlit, OpenCV, NLTK
Core Competencies: Data Visualization, Object-Oriented Programming (OOP), Statistical Analysis, SQL

Experience

Artificial Intelligence and Machine Learning Intern   **December 2023 – April 2024**
Dhyey Technologies (OPC) PVT. LTD. DBA TechXi   *Vadodara, Gujarat, India*

- Developed a service to convert Black and White images to colored images using Generative Adversarial Network and leveraged U-Net to form the generator
- Created a self playing Super Mario Bot using Reinforcement Learning in Open Gym Environment, and tried ways togenerate less data while training the bots
- Devised a Health Diagnostic assistant, that helps medical professionals diagnose Diabetes, BreastCancer, Heart Disease, Kidney Disease, Liver Disease, Malaria, and Pneumonia.

Data Science and Machine Learning Intern   **May 2023 – June 2023**
BrainyBeam Technologies Pvt. Ltd.   *Ahmedabad, Gujarat, India*

- Focused on learning and working with basic concepts of machine learning and data science.
- Collaborated on a Medical Insurance Cost Predictor that employed regression methodologies to estimate insurance cost based on various factors.

Python Intern   **May 2022 – July 2022**
WebBrains Technologies Pvt. Ltd.   *Vadodara, Gujarat, India*

- Learned ways to connect various SQL database to python projects
- Utilized Django framework to create a dynamic E-commerce site for a small scale bakery

Projects

CareerPredictionTool | *Gaussian Naive Bayes Algorithm, Django-Python, Jinja Templating*   **Sept 2022**

- Developed a career prediction tool where the algorithm uses the prospects grades and interests as inputs and suggests asuitable career path and provides a road map for the same.
- Provided a user interface using the Django framework.

Sentiment based Music Recommendation System | *OpenCV, Neural Network, Flask, Python*   **May 2023**

- Designed a system that captures an individuals picture at any point in time and produces music choice based on themood of the individual as predicted by the algorithm.
- Used OpenCV to map and isolate face of an individual and used convolutional neural network to identify the mood. AndSpoti-py api was used to fetch song suggestions based on the mood identified.
- Employed Flask framework to enhance the user interface

Lip Reading Model | *Sequential Neural Network, Streamlit Framework, Python*   **Feb 2023**

- The model takes a video input and estimates the words spoken in the video from the lip movement captured by the video. This is based on LipNet deep learning model
- Sequence of jaw movements are mapped to tokens which are further associated with letters, the video is processed to identify the jaw movements that are mapped to tokens in order to identify the words being spoken.
- Used Streamlit to provide a user interface.