

Ayush Patel

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EDUCATION

- **Vellore Institute of Technology**

- *Master of Data Science : GPA: 9.0*

Vellore, India

August 2021 - Ongoing

- **International Institute of Professional Studies , DAVV**

- *Bachelors in Computer Application : GPA: 8.2*

Indore, India

July 2018 - June 2021

PROJECTS

- **Hearing US - Sign to Text Converter for deaf people**, (Computer Vision, Video Processing, Natural Language Processing, Web Development):

A Web Application which converts American sign language into text using a Inception3D model trained on more than 8000 short videos of 2000 words and then transferred the predicted labels to a paraphrasing model to make a meaningful sentence.

Tech: Python, Pytorch, OpenCV, Streamlit, HTML, CSS, Azure

- **Guarden - Crop advisory app for farmers** (Computer Vision, Image Processing, App Development): A mobile application which let farmers to recognize plant diseases, pests and nutrient diffidence just by sending a picture.

Tech: Python, Tensorflow, SQLite, Kivy ,Buildozer

- **Image Captioning(Computer Vision, Deep Learning ,Web Development)**: A Web application which uses combination of different Deep Neural Nets trained on Flickr 8K dataset to provide a caption or to describe an image with accuracy of 85%

Tech: Python, Pytorch, Streamlit, Azure Cloud

- **YouTube Views prediction(Machine Learning)**: Performed necessary data prepossessing steps and built a YouTube views prediction model with data of thumbnail, likes & comments using ensemble techniques.

Tech: Python, Scikit, Pandas, Optuna

- **Stock Price Prediction (Time Series, Machine Learning, Deep Learning)**: Used a 1D convolutional neural network (1D-CNN) and a recurrent neural network (RNN) with long-short-term memory (LSTM) cell for one-step and multi-step time series prediction/forecasting

Tech: Pandas, Stattools, Tensorflow

- **Sentiment Analysis on Movie reviews (Natural Language Processing)**: Implemented different transformers models to perform Sentiment Analysis after applying necessary data prepossessing techniques like Sentence Segmentation, Tokenization, Lemmatization, Tagging.

Tech: Python, Transformers

SKILLS SUMMARY

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

- **Frameworks:** Scikit, Pandas, OpenCV, NLTK, SpaCy, TensorFlow, Keras, Pytorch, Flask, Streamlit

- **Tools:** MySQL, SQLite, Docker, GIT, MongoDB

- **Platforms:** Linux, Windows, Azure, Heroku, Streamlit Cloud, Hugging Face Spaces

- **Soft Skills:** Adaptability and Flexibility, Problem-Solving, Stress Management, Time Management, Teamwork

ACCOMPLISHMENT

- Achieved **Rank 1** in UTKRAANTI 2019(National Level Championship) workshop on AI

- Secured **Rank 1** among 3500 participants in Book Price Prediction Challenge organised by Machine Hack

- **Ranked in Top 10** of the Work Hour Prediction Challenge by Machine Hack

- Secured **Rank 11** among 200 teams in Cascade Cup 22 organised by IIT Guwahati

- **Global Ranking 45** out of 6000 on Machine Hack Platform

- **Ranked in Top 150** out of 5,000 teams in Amazon ML Challenge 2021

ADDITIONAL INFORMATION

- Mentored a team of students in final year

- Team Lead at UTKRAANTI 2019

- Possesses the quality of a good storyteller

- Owned and executed end to end multiple data science projects

- Team player with effective communication skills and proven abilities in resolving complex issues