

Ayush Patel

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EDUCATION

- **Vellore Institute of Technology** Vellore, India
Master of Data Science : GPA: 9.0
August 2021 - Ongoing
- **International Institute of Professional Studies , DAVV** Indore, India
Bachelors in Computer Application : GPA: 8.2
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 preprocessing 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 preprocessing 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