

AANAL SHAH

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WORK EXPERIENCE

Data Science Intern

May 2022 - Oct 2022

Perceptioncare Pvt. Ltd, India

- Built a Deep Learning model to evaluate English Proficiency Language test with 85% Accuracy.
- Worked with skilled team member to develop end-to-end software for the company.
- Gathered data from various resources and prepare dataset of more than 5,000 rows after cleaning and pre-processing techniques.

Machine Learning Intern

Jan 2021 - June 2021

Spectris Solution Pvt. Ltd, India

- Developed a LSTM model for converting pixels to HTML-bootstrap code and used more than 300 website's code and UI Design as a part of dataset.
- Worked cross-functionally in an agile environment with a team to design project.
- Pre-processed the data, performing tasks such as data cleaning, image resizing, and feature extraction. Improved the effective accuracy of 75%.

PROJECTS

Feedback Sentiment Analyzer

Jan 2020 - April 2020

- Feedback sentiment analysis is end-to-end solution for identifying nature of suggestion, complain and Feedbacks (Both Digital and Paper-based).
- Trained Naïve Bayes model to classify sentiment comments through various algorithms.
- Created pickle file to communicate with web-app and backend side ML-Model.
- Excelled skills in Data Cleaning, OCR-based Text recognition, G-Cloud API, Image Processing.
- **Tech-Stack:** Python, Google Vision API, StanfordNER Dataset, Scikit-learn, Pandas, matplotlib, Django, RESTful API.

DL-Based CV Extractor

May 2020 – Nov 2020

- An automatic Software to filter Job applicants' CV based on particular parameter and convert it into .CSV file.
- Launched Machine Learning Models, OCR-based Text Recognition, and Natural Language Processing algorithms.
- Used StanfordNER Dataset for Name Entity Recognition additionally custom data processing pipeline is written in PyTorch to increase accuracy.
- **Tech-Stack:** Python, tesseract, Sklearn, PDFMiner, Pandas, Numpy, PyTorch, MongoDB.

Peer-To-Peer Video Streaming App

June 2019 - Oct 2019

- Developed Peer-To-Peer Video Streaming App, A Secure, Sustainable and Cost-Effective video streaming solution.
- System architecture has less dependence, storage efficiency and able to work on low-bandwidth connection between two ports.
- **Tech-Stack:** JavaScript, NodeJS, Socket.io, ExpressJS, WebRTC API, Bootstrap, HTML, CSS.

Voice-enabled Educational Platform

Jan 2019 - April 2019

- Established web-application which can be used to practice and conduct any form of Voice based online examination through Speech Recognition and Synthesis.

- Objective of the software is to ask appropriate questions to candidates based on the candidate profile with the help of a machine learning model.
- Built Text Processing scripts with NLP and AI based model using Neural Networks to evaluate the entire examination.
- **Technologies:** PHP, Python, RecordJS, Speech-to-text, Tensorflow, Scikit-learn, NLTK.

EDUCATION

Master of Science in Big Data analytics

Jan 2023- Present

Trent University, Peterborough, Canada

Bachelor of Engineering in Information Technology (4 Years)

Aug 2018- May 2022

Gandhinagar Institute of Technology, Gujarat, India

- Majors: Data Science, Machine Learning, Data Structure and Algorithms

GPA: 3.9 / 4.00

CERTIFICATION

- Google Cloud Ready Facilitator Program by Google *with Google*
- End-to-End Machine Learning with TensorFlow *on Google Cloud Platform by Coursera*
- Learning MySQL with Real time Projects *on Coursera*

- **SSIP Hackathon (State- Level)**

2019- 2022

Project of feedback analyzer to predict the review from hard-copy based feedback in 24 Hours.
Accomplished on time given changes by judges which led towards finalist among 1000 of teams.

PUBLICATION

Survey: Emotion Recognition from Text Using Different Approaches

International Conference, FTNCT 2021

- different approaches are categorized mainly into three topics (including Machine Learning) and also suggestions are given to use the specific techniques according to the requirements.

SKILLS

- **Programming:** Python, R, Java, C/C++, SQL, JavaScript, Tableau
- **Deep Learning Frameworks:** Scikit-learn, TensorFlow, Pandas, NLTK, NumPy, Keras, Matplotlib, PyTorch
- **Open-source Frameworks:** RESTful, Bootstrap, Django
- **Extra Tech-Stack:**
 - Node.js
 - Machine Learning
 - Algorithm and Data Structure
 - MySQL
 - MongoDB