Shrey Modi

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ENTREPRENEURIAL INITIATIVE

ResTech   Oct. 2021 – April. 2022
Founder
- Providing Research Based service to clients on their business products as well as a thorough comparison of market participants and how they may differentiate themselves.

INTERNSHIP EXPERIENCE

Physical Research laboratory(PRL)   Ahmedabad , India
Research Intern   *May. 2022 – Nov 2022*
- Working on the lunar south pole regions to discover water and ice particles in the permanently shadowed regions(PSR's) using Image processing Techniques and Deep learning models
- Worked on creating a deep learning algorithm and implemented it on the PSR to look out for craters and boulders.

Indian Space Research Organisation(ISRO)   Ahmedabad , India
Research Intern   *April. 2021 – Sept. 2021*
- Researched on one of the application of Visual Positioning system(VPS) using Image Processing,machine learning, Content Based Image Retrieval (CBIR), SIFT, vocabulary tree, OpenCV and output visualization of the data key points on the map.
- Ranked images based on the brute force matching to get the nearest match to the query image
- Researched and created the algorithm faster to search the queries and give the query results in fraction of seconds.

Firecamp.io   Surat , India
Software Developer Intern   *April 2020 - September 2020*
- Leveraged machine learning backend support for REST API and web socket package. Also developed Predefined GraphQL queries for Firecamp which would help in creating a training dataset which is used to train the GraphQL recommendation tool.
- Performed Automated API testing and JSON payload testing for HTTP, web socket and socket.io requests, along with creating automated JSON payloads schema using backend machine learning tool .

PROJECTS

ResRank(A Resume Ranker | *Python, Flask, Machine Learning, SQL*   2020
- Developed a resume ranker which was built in flask and integrated with machine learning.
- The Main aim was to rank the candidates based on the job profile and give the recruiter the rank list of top candidates
- Integrated an Aptitude test mode with an interview practice mode for the candidates

EDUCATION

MS in Computer Science   Long Beach, California
California State University Long Beach,   *Jan. 2023 – Dec. 2024*

B.Tech in Information Technology   Anand, India
Charotar University of Science and Technology (CHARUSAT), **CGPA – 8.72**   *Jul. 2018 – 2022*

PUBLICATIONS

Facial Emotion Recognition using Convolution Neural Network   2021
Published in International Conference on International Computing and Control Systems (ICICCS)   *[Pdf] [Journal]*
- Researched on facial emotion recognition using Convolution neural network.
- Provided a comparision between CNN approach and Transfer learning approach to prove which performs better.

Comparative Analysis on Psychometric Prediction System   2021
Published in Smart Technologies, Communication and Robotics (STCR)   *[Pdf] [Journal]*
- Researched on Psychometric prediction system using regression and clustering techniques
- Created a real time database through a questionaire from people in authors vicinity
- Provided a Comparision between the techniques used and prove which is a better method.

Employee Attrition System using tree based ensemble techniques   2022
Accepted in International Conference on Communication, Computing and Industry   *[Pdf] [Journal]*
- Researched on different ensemble techniques for employee attrition system
- Finding a higher accuracy then the current existing models using the ensemble technique

POSITION OF RESPONSIBILITY

Core Committe Member – Depstar Coding Club   Nov. 2018 – Apr. 2021

Mentor – Major league Hacking(MLH)   Jul 2020 – Present

TECHNICAL SKILLS

Languages and Database: C, C++, JAVA, Python, MySQL **Technologies**: GitHub, Latex, MATLAB, Flask,Django,websockets
ML Libraries: Pandas, Sklearn, Keras, TensorFlow, Pytorch   **Interpersonal**: Collaboration,Communication, management