

# Khushi Shah

✉ [khps2002@gmail.com](mailto:khps2002@gmail.com)

🐙 [Github](#)

☎ +91 9824783340


🌐 [Website](#)

📍 Ahmedabad, Gujarat, India

🌐 [Linkedin](#)

🏆 [Kaggle](#)

## Education

2019 – 2023  **B.Tech Pandit Deendayal Energy University** Computer Science.  
CGPA: 9.7/10.0

## Experience

June 2022 – . . . .  **ML Research Intern** Manentia AI

Worked on breast cancer identification and classification to help doctors save time by identifying the abnormality in mammographs. Also, worked on brain hemorrhage and stroke detection through MRI scans

Feb 2022 – March 2022  **Research Intern** IIT Patna


Worked on UAV-enabled computation offloading for industrial internet of things using deep reinforcement learning under the guidance of Rohit Gupta sir

## Research Publications


### Journals

 **Proposed DBMS for OTT Platforms in Line With New Age Requirements** Indian journal of Computer Science

This paper emphasizes improving the user experience for the platform by efficiently managing data. Collection of shows being the root of the tree here, this paper improvises the currently existing branches via various tables and suggests some new features on how the data collected can be utilized for introducing new and much-required query results for the consumer.

 **State of charge, remaining useful life and knee point estimation based on artificial intelligence and Machine learning in lithium-ion EV batteries: A comprehensive review** Renewable Energy Focus


This review intends to furnish a comparative analysis of Machine learning and Artificial intelligence related estimation techniques and analyze their superiority over traditional data-driven methods as they can be further used in battery management systems to improve battery prognostics.

 **Exploring the public's perception through twitter and reddit during covid 19 pandemic: Sentimental analysis and emotion's extraction** Under review at Expert systems with applications

In this paper, we analyze the sentiments of tweets and posts that happened around the span of the global pandemic in 5 different countries and derive insights. LSTM model is developed that can predict sentiments with 94% accuracy.

### Articles

 [Exploratory Analysis Using Univariate, Bivariate, and Multivariate Analysis Techniques](#)

 [Beginner-friendly Project- Cat and Dog classification using CNN](#)

 [Get Started with NLP](#)

## Skills

- C, C++, Java, Python, HTML, CSS, Javascript, Tableau, SQL, Flutter, Unix/ Linux, Machine Learning, Deep Learning framework - Tensorflow, Natural Language Processing, Image Processing, Internet of Things (IoT), Adobe Photoshop, Conda, MS Excel

## Projects

- **Mental Health analysis through Twitter and Reddit during Covid-19**  
We extracted tweets from the 5 most covid-affected countries through Twitter from 3 different time periods (pre-covid era, during covid, and the post-covid era). We also extracted posts from 6 covid and mental health related subreddits. We used Word2vec as a feature extraction model and LSTM outperformed all other models giving 92% accuracy for sentimental analysis and 94% accuracy for emotion analysis.
- **Brain MRI classification and segmentation**  
We received real-time MRI image dataset from Indian hospitals. We preprocessed the data by converting dicom images into 3D volumes and applying windowing according to our needs and then segmented the abnormality if present using U-Net model. We further predict the size of this abnormality and classify it as ischemic stroke or hemorrhage.
- **Digital Repository management**  
After creating the login page, we created our first module that will allow the librarians to add different kinds of resources to collections. We are in the process of creating a module for searching items.
- **Crime Analysis in India**  
I used data to tell a story about crimes occurring in India. I extracted data from the Indian government website, cleaned it, and worked on it to visualize and derive some useful insights.
- **All-in-one app to explore data easily**  
I developed and deployed an app where you can explore your data without writing any code. Currently, there are 6 features available. You can upload your dataset and select parameters as per your requirement. 1. Data Profiling, 2. Missing Values, 3. Visualization, 4. Anomaly Detection, 5. Linear Regression, 6. Random Forest Regressor.

## Positions of responsibility

- 2021- . . . . ■ **Placement Coordinator**, Pandit Deendayal Energy University
- 2021-2022 ■ **Sponsorship Head**, Science and Technical committee PDEU

## Certifications

- May 2021 ■ Data Analytics Consulting Virtual Internship, KPMG ,Forage
- Oct 2020 ■ Natural Language Processing with Classification and Vector Spaces ,Coursera
- May 2020 ■ Neural Networks with Deep Learning ,Coursera