

# Snigdha Pandey

+91-7017389670 | [snigdhapandey336@gmail.com](mailto:snigdhapandey336@gmail.com) | [linkedin.com/in/snigdha-pandey-a56758228/](https://www.linkedin.com/in/snigdha-pandey-a56758228/) | [github.com/snigdhap2301](https://github.com/snigdhap2301)

## EDUCATION

### Vellore Institute of Technology, Bhopal

*Pursuing a Bachelor of Technology in Computer Science and Engineering. - 8.37 CGPA*

September 2021 – July 2025

### Shri Gulab Rai Montessori School

*Class XII - 88.4%*

April 2020 - May 2021

### Shri Gulab Rai Montessori School

*Class X - 87%*

April 2018 - May 2019

*Bareilly, UP*

## TECHNICAL SKILLS

Python, Java, SQL, Google Cloud, JavaScript, HTML, CSS, Machine Learning, Git.

## CERTIFICATES

- AWS Certified Cloud Practitioner, AWS — *March 2024*
- Google Cloud Certified Cloud Digital Leader — *January 2024*
- Google Cloud Career Practitioner — *January 2023*

## PROJECTS

### FLOORVERSE | *Python, Flask, Conditional VAE*

*August 2024 – April 2025*

- Developed an automated residential floorplan generation system using a Conditional Variational Autoencoder (CVAE) trained on 80,000+ images, reducing manual planning time by 60%.
- Architected a responsive Flask backend alongside adaptive frontend interface for real-time floorplan visualization based on user-defined parameters, resulting in a 40% reduction in floorplan revisions.
- Enhanced model performance by refining data normalization pipelines, improving data pre-processing workflows, and collaborating cross-functionally with peers to ensure architectural design and model predictions remained aligned with practical construction standards.

### HushHate | *Python, TensorFlow, RNNs, LSTM*

*July 2024 – August 2024*

- Achieved more than 70% accuracy in detecting and classifying roast comments through the implementation of a sentiment analysis system using TensorFlow Keras and Recurrent Neural Networks (RNN) with Long Short-Term Memory (LSTM) layers.
- Enhanced the efficiency and accuracy of text processing by approximately 40% through strategic application of the NLTK library for preprocessing and normalization across 50+ collected roast and toast comment datasets.
- Defined, designed, and trained a Sequential deep learning model architecture comprising two LSTM layers, enabling context-aware sentiment classification while significantly optimizing model performance metrics.

### Skin Cancer Prediction | *Python, Flask, CNNs, Keras*

*December 2023 – April 2024*

- Designed and created a deep learning-based Skin Cancer Prediction system utilizing Convolutional Neural Networks (CNNs) and TensorFlow Keras, achieving 97.56% validation accuracy on a curated dataset of over 10,000 labeled dermatoscopic images.
- Collaborated with a team of 9 contributors to design, develop, and deploy a Flask-based web application providing an intuitive user interface for image upload and result display, enhancing user accessibility and engagement.
- Executed comprehensive testing and iterative adjustments on deep learning frameworks, resulting in a 50% reduction in potential misdiagnosis rates.

## ACHIEVEMENTS

- Top Campaign Contributor**, Crowdsorce by Google India, demonstrating active engagement and contributions to AI training data initiatives.
- Presented research findings** at ICICCT, Jawaharlal Nehru University, contributing and showcasing technical research proficiency and academic excellence.

## INTERESTS

Painting, Baking, Playing a Musical instrument