

# SUMAN GOEL

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[GitHub](#) | [LinkedIn](#) | [WebPage](#)

## EDUCATION

Veer Surendra Sai University of Technology

Burla, Odisha, India, 768018

B.TECH (COMPUTER SCIENCE AND ENGINEERING)

2017-2021

## EXPERIENCE

ML & AI Intern

Chennai, India

Digital Tesseract

APR 2020 - JUN 2020

- Built a text preprocess and summarize webapp using streamlit.
- Written and published articles on various machine learning topics.

Student Intern

Pune, India

Center for Development of Advanced Computing (C-DAC)

DEC 2018 - JAN 2019

- Training on High performance computing, Machine Learning and Deep Learning.
- Programmed a keyword searching algorithm over a large text corpus using parallel programming models like OpenMP, MPI and CUDA on HPCs.

## PROJECTS

Movie Recommendation system

- Built a content based recommendation system on a movie dataset.
- Calculated similarity matrix between the movie watched and all other movie similar to that with reference to genre,director,storyline and cast.
- Deployed the model to heroku and used Flask as the backend.

Text Summarizer and Preprocessing

- Created an interactive extractive text summarization application with option to choose from different summarizing algorithms.
- Used Genism and Sumy lex rank algorithm for speed and accuracy.
- Deployed the model using Streamlit and hosted on heroku.

Image Captioning

- Created a captioning bot that takes images and generates a sentence that describes the image.
- Used transfer learning from a pretrained VGG16 network as the features extractor from the images.
- Generated the sentences using a series of LSTM networks.

Face Image Reconstruction

- Implemented a research paper on SFSNET to reconstruct face images in the wild using Tensorflow framework.
- Improved the models performance by updating the architecture to a Adversarial Network.

Blog website

- Built a blog website using HTML/CSS with flask as the backend with features like user registration and login and blog management.
- Used SQL database to store user details and blogs.

## SKILLS

- **Languages/Technologies:** Python, C/C++, SQL, HTML, CSS, Dart
- **Libraries/Frameworks:** Tensorflow, Keras, Flask, Pandas, Streamlit, OpenCV, Flutter
- **Machine Learning:** CNNs, RNNs, GANs, Reinforcement Learning, RBMs, Ensemble Learning
- **Softwares:** Git, Github, Jupyter, Spyder, Andriod Studio