



## Anjani Kumar Singh

GitHub: <https://github.com/Anjani100>

Portfolio: [www.tech-turtle.com](http://www.tech-turtle.com)

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### Education

#### HERITAGE INSTITUTE OF TECHNOLOGY – BACHELOR OF TECHNOLOGY (CS) – ANTICIPATED JUN 2021

Relevant course work: Data Structures and Algorithms, Machine Learning, DBMS.

### Experience

#### TUTREE INC. – NATURAL LANGUAGE PROCESSING – MACHINE LEARNING INTERN – JUL 2020 TO SEP 2020

Develop models to predict the nature of a job (whether it's part-time or full-time, etc) posted on a job portal using NLP techniques (BERT, Transformers, etc.).

Design APIs to return the results of the model and then push it on the server for production.

#### 80M INTERNET – DATA ANALYSIS – PYTHON DEVELOPER INTERN – DEC 2019 TO MAR 2020

Design a crawler using Python-Scrapy to crawl data from various shopping websites. Develop an automation code to clean the data extracted.

Created import and export services in the company's website and meanwhile look up for any bugs.

#### TECHCITI TECHNOLOGIES PVT. LTD. – WEB DEVELOPMENT – SDE INTERN – DEC 2018 TO JAN 2019

Design a website which will connect all the other hospital's website where each patient will have a unique ID thus managing efficiently the patient's record irrespective of the geographical location of that patient.

**COPD (Chronic Obstructive Pulmonary Disease) Determination:** Design a software which can read an excel file and from there look for the patient's report in the system. Then, it'll mine for the important data in that report and present it in a tabular form.

### Projects

#### LUNG CANCER CELL DETECTION USING HISTOPATHOLOGICAL IMAGES

In this study, the detection of different kinds of lung cancer is realized using different transfer learning models such as VGG-16, VGG-19, AlexNet, LeNet, ResNet50 and DenseNet121. The experiments were carried out on an open dataset composed of Histological images.

*Technologies used:* Tensorflow, Convolutional Neural Networks, Python.

#### NOTECLUB

NoteClub is a platform where you can share your college/school notes and assignments with your classmates. On Noteclub, the notes are categorised department-wise, semester-wise and even subject-wise which makes it easier for the user to find what they're looking for.

*Technologies used:* Django, JavaScript, deployed on DigitalOcean.

*Site Link:* [www.noteclub.engineer](http://www.noteclub.engineer)

*Source Code:* <https://github.com/Anjani100/Note-Keeper>

## PNEUMONIA DETECTION FROM CHEST X-RAY IMAGES

In the following project, I designed a model using Convolutional Neural Networks which detects Pneumonia in patients with an accuracy of >95%. The dataset is organized into 3 folders (train, test, val) and contains subfolders for each image category (Pneumonia/Normal). There are 5,863 X-Ray images (JPEG) and 2 categories (Pneumonia/Normal).

*Technologies used:* Tensorflow, Python, Scikit-Learn.

*Dataset:* <https://www.kaggle.com/paultimothymooney/chest-xray-pneumonia>

*Source Code:* <https://github.com/Anjani100/Pneumonia-Detection-using-Chest-X-Ray-Images>

## UNDERSTANDING CLOUDS FROM SATELLITE IMAGES

Shallow clouds play a huge role in determining the Earth's climate. They're difficult to understand and to represent in climate models. By classifying different types of cloud organization, we can improve our physical understanding of these clouds, which in turn will help us build better climate models.

*Dataset:* [www.kaggle.com/c/understanding\\_cloud\\_organization](https://www.kaggle.com/c/understanding_cloud_organization)

### Skills

- **Machine Learning:** NLP, SVM, CNN (Tensorflow)
- **Data Analysis:** Python, SQL
- **Programming:** C, C++
- **Databases:** Oracle, MySQL, PostgreSQL
- **Scraping:** Scrapy, BeautifulSoup
- **Back-End Dev:** Django, NodeJS

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*"...one of the smartest co-workers I have worked with. He is a fast learner and thrives under pressure and with challenges. He adapts to new tasks and technologies with ease."*  
-Amit S. Bhandaari, SDE Lead at 8om Internet

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