Avinash Pentapati

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Date of birth: 01/07/1994   **Nationality:** Indian

ABOUT ME

Young graduate from India in Italy
-Engineering degree in electronics and communications
-University of Brescia master's degree holder in multimedia and communication technologies.
-Over a year of professional exposure as a data analyst.
-I began my training with PowerCoders Italy as a full stack developer.

PROJECTS

[01/01/2022 – 30/06/2022]   **Master Thesis(X_ray image Classification using Deep Learning)**

Objective and Problem Statement

The objective of this work is to use the X-ray images to analyze the condition of the patient and detect any kinds of anomalies that can lead to the Lung diseases at an early stage.

Some models are available that will take care of only 1 diseases. In this manner, there is a necessity to bring up another model that can recognize more than one disease(Tuberculosis, Covid19, Pneumonia).

Result

In this thesis, I implemented a good CNN (Convolution Neural Network) which can be trained and tested to identify which x-ray image belongs to which type of disease. After that, I used transfer learning with the same data on different pre-trained model to see which model gives the better performance. The empirical evaluation, CNN performance analysis, and final findings can be generalized to the design of high-performance CAD systems for other medical imaging tasks.

Models used in this work :-

CNN , Transfer Learning Models .

Skills :-

Python, machine learning , Deep learning

https://github.com/avinash49479/Thesis

WORK EXPERIENCE

[20/08/2016 – 30/10/2017] **Data analyst**

Intelenet Global Services Pvt Ltd

City: Hyderabad
Country: India
Main activities and responsibilities:
As a data analyst my key role is to turn the raw data into information which can be used to make decisions. The process can be done by extracting data from the sources and removing corrupted data , reorganizing data in a required format to perform analysis to get information from the data.
- Analyze business data to find inefficiencies
- Review user information to increase retention
- Generate reports for senior analysts
- Introduce technical solutions for clients
- Prepare data tables using SQL for senior-level staff

Key skills:- SQL , Python.

EDUCATION AND TRAINING

[19/09/2022 – 19/12/2022] **Full stack Developer**

PowerCoders Italia

Address: Milan , Italy
Main subject / occupational skills covered:
Subjects:-
HTML, CSS , JavaScript , Sequilize , Node.js, React, Figma etc.,

[11/11/2018 – 11/07/2022] **Masters in Communication Technologies and Multimedia**

University of Brescia   https://www.unibs.it/it

Address: Via Branze, 38, Europa (BS), 25123, Brescia, Italy
Final grade: 93
Thesis: X_ray image classification using Deep Learning.
Main subject / occupational skills covered:
1. Digital Communication (12CFU)
2. Image Processing and visualization(9CFU)
3. Electronics for Telecommunication(9CFU)
4. Antennas and Wireless Systems(9CFU)
5. Multimedia Communication Services(9CFU)
6. Digital Audio Processing(6CFU)
7. Optical Communication Systems(9CFU)
8. Microwave Engineering(6CFU)
9. Health Information Systems(6CFU)
10. Advanced methods for information representation(6CFU)
11. Remote sensing(6CFU)
12. Nanotechnologies(6CFU)

[01/08/2017 – 25/07/2018] PG Diploma In Game Development

Backstage Pass Institute of Gaming and Technology https://
www.backstagepass.co.in/

Address: 1-89-3/4 2nd floor, Raghuma Towers, Near IndusInd Bank, Kavuri Hills,
Madhapur., 500081, Hyderabad, India
Final grade: 71%

[09/06/2011 – 24/05/2015] Electronics and Communication Engineering

Jawaharlal Nehru Technological University, Kakinada

Address: Jawaharlal Nehru Technological University, Kakinada., Andhra Pradesh., 533003,
Kakinada, India
Final grade: 69%
Thesis: A Bench Mark on a wireless Communication in various Modulations using GUI in
Matlab

LANGUAGE SKILLS

Mother tongue(s): Telugu

Other language(s):

English

LISTENING C2 **READING** C2 **WRITING** C1

SPOKEN PRODUCTION C1 **SPOKEN INTERACTION** C2

Hindi

LISTENING C1 **READING** C1 **WRITING** C1

SPOKEN PRODUCTION C1 **SPOKEN INTERACTION** C1

Italian

LISTENING A2 **READING** A2 **WRITING** A1

SPOKEN PRODUCTION A1 **SPOKEN INTERACTION** A2

DIGITAL SKILLS

My Digital Skills

SQL (MySQL) | Machine Learning Numpy | Transfer learning algorithms | Python
(pandas, numpy) | Tensorflow/keras | Basic knowledge in web development: HTML,
CSS, Javascript

AUTHORIZATION

Authorization

Autorizzo il trattamento dei miei dati personali presenti nel CV ai sensi dell'art. 13 d. lgs.
30 giugno 2003 n. 196 - "Codice in materia di protezione dei dati personali" e dell'art. 13
GDPR 679/16 - "Regolamento europeo sulla protezione dei dati personali".