SHREY SHAH RESUME

▶ Status: Seeking Job in a software development field.

Degree: Final Year Student at BITS Pilani - B.E.(Hons) in Computer Science,

M.Sc. in Biological Sciences.

Skills: Java, Python, Golang, Keras, Tensorflow, C, C++

Interests: Software Development, Deep Learning specifically Biomedical Im-

age Analysis



Education

2015 - 2020 M.Sc. Biological Science and B.E. (Hons.), Computer Science

BITS Pilani

- Thesis: Lung Cancer Detection using CT Scan Images at Hiroshima University
- ➤ Current CGPA 9.26
- ▶ <u>Relevant Coursework:</u> Machine Learning · Data Structures and Algorithms · Object Oriented Programming · Database Management · Operating Systems · Computer Architecture · Theory of Computation · Neural Network and Fuzzy Logic · Discrete · Structures Microprocessor & Interfacing · Principles of Programming Language · Design and Analysis of Algorithms · Computer Networks · Cryptography · Compiler Construction

2014 - 2015 ISC - Indian School Certificate, Grade XII

Zydus School

Passed with Distinction with 95%, ranked #3 in school

Publication

April 2020 Lung Cancer Detection

Hiroshima University

▶ Shrey S.B., Hakim L., Kavitha M., Kim H.W., Kurita T. (2020)

Transfer Learning by Cascaded Network to Identify and Classify Lung Nodules for Cancer Detection. In: Ohyama W., Jung S. (eds) Frontiers of Computer Vision. IW-FCV 2020. Communications in Computer and Information Science, vol 1212. Springer, Singapore

Experience

Jan/'20 - Present Intern, Member of Technical Staff

Nutanix

- Working with the Microservices Platform Team to help onboard the nutanix services and microservices on the platform.
- Working with docker containers to implement a python automation script which generated a tar package with the required files to run on the platform.
- Worked on various tasks which involves coding in python and golang.

Aug/'19 - Dec/'19

Research Intern

Hiroshima University

- Worked on Lung Cancer detection using CT scan Images.
- ➤ Created a Cascaded network to forward the suspicious nodule containing images to the classifier network and discard the non-suspicious images. The classifier helped segregate the nodules into benign and malignant.
- Work was accepted as a conference paper in IW-FCV 2020 which was later published as post conference proceeding in springer.

May/'19 - July/'19

Machine learning Intern

JP Morgan Chase

- Trained various models with different algorithms, compared the accuracy and tuned the hyperparameters for best results.
- ▶ Publicly available dataset from yahoo finance and internal dataset from JPMC was used for the training purpose.
- Treated a GUI for enhanced user interaction for the same using tkinter library in python.

>>> Projects	
Jan/'19 - April/'19	Target Detection using EEG Signals
	▶ Detecting p300 peaks obtained in the EEG signals of the brain. ConvLSTM model used to identify and classify the peaks into p300 and non-p300.
	▶ Tried various methods to reduce the bias of dataset eventually leading to a better model accuracy over the one mentioned in the research paper.
Jan/'19 - Apr/'19	Compiler Construction
	As a part of the course Compiler Construction, had to implement a compiler from scratch for a uniquely defined language.
	The compiler could parse the language code and output errors if any.
Oct/'18 - Dec/'18	Race Prediction from facial Images
	▶ Predicted the race of the person from the facial Images cropped and centred.
	2 Models were used: Transfer Learning model pre-trained on ImageNet dataset and a Deep Learning model trained from scratch on UTKFace dataset.
	Compared the accuracy and training time for both the models.
Oct/'18 - Dec/'18	Lung segmentation from CT scan images
	▶ Lungs were detected in CT Scan Images, training data used was CT scan images and hand labelled masks to identify the lungs.
	▶ U-net type architecture was trained on the masked images using dice coefficient as loss function owing to imbalance in masks (small lung masks as compared to the full image).
	Model was later tested on private dataset at Hiroshima University and performed up to the mark.
Apr/'18 - May/'18	Scala Project
	As a part of the course Principles of Programming Language, had to implement a two layered convolutional neural network.
	▶ Convolutional, pooling, activation and normalization layers were implemented in scala from scratch.

>>>> Position of Responsibility	
Mar/'17 - Dec/'17	Coordinator, Gaming Club BITS Pilani
	▶ I worked as a coordinator for the event Ignition in BOSM 2017 which saw the participation of over 200 students and lasted over 4 days
Jan/'17 - Mar/'17	Event Coordinator, Gaming Club BITS Pilani
	▶ I worked as event coordinator for Armageddon, APOGEE 2017 in which I oversaw and conducted various individual gaming events.

Scholarship	os
2015 - 2020	Inspire Scholarship
	▶ INSPIRE Scholarship by Govt.of India (awarded to top 1% Sciences UG students).
2016 - 2017	Merit Scholarship
	▶ Merit Scholarship by BITS Pilani (awarded to top 25 students across campus).