

# Tushar Dhyani

DEEP LEARNING · DATA SCIENCE · CINEMATOGRAPHY · GRAPHIC DESIGN

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## Education

### Madhav Institute of Technology & Science

Gwalior, Madhya Pradesh, India

B.E. IN INFORMATION TECHNOLOGY

June. 2014 - June. 2018

- Coursework: Database Design, Data structures, Artificial Intelligence, Neural Networks, Algorithms, OOPS etc. .

## Certifications

### Imperial College, London

ADVANCED MACHINE LEARNING MATHEMATICS

Oct. 2018 - Jan. 2019

- Coursework: Fundamentals of linear Algebra, Multivariate Calculus, Principal Component Analysis.
- Projects: Rebuilt the first Google Pagerank algorithm, implemented SGD from scratch, and designed PCA from scratch.

### Deeplearning.ai & Coursera

DEEP LEARNING SPECIALIZATION

Jan. 2018 - Oct. 2018

- Coursework: Neural Networks & Deep Learning, Project Structuring, Convolutional Neural Networks, Sequence Models.
- Projects: Built simple neural network and CNN from scratch, implemented one-shot learning for face verification.

## Work Experience

### Genietalk.

Indore, Madhya Pradesh, India

DATA SCIENCE INTERN

July. 2018 - Oct. 2018

- Understanding the basis of Machine comprehension and the underlying technologies.
- Built a Deep learning models for language classification of English typed languages.
- Automated information extraction using BeautifulSoup and Selenium.

## Achievement

Dec-2015 **ACM ICPC-Kharagpur Regionals**, Member of team *CPP Killers* which ranked 42 (out of 76).

IIT-Kharagpur

Mar-2017 **Google CodeJAM-Qualification round**, ranked 14824 (Out of 25288).

Gwalior

Mar-2017 **Facebook-Hackercup**, ranked 7842 (Out of 12804).

Gwalior

## Projects

### Siam Ease

Indore, M.P, India

SIGNATURE RECOGNITION

Nov 2018

- Applied one-shot learning to create signature recognition to identify real and fraud signature.

### Query localizer

Indore, M.P, India

CLASSIFYING LANGUAGES FOR ENGLISH TYPED LANGUAGE.

Aug 2018

- Created vocabulary for classifying languages and created word embeddings using Gensim using self extracted datasets.
- Packaged the classifier for classification of Hinglish and English.

### Numlyser

Gwalior, M.P, India

CLASSIFICATION ON MNIST DATASET ON KAGGLE.

July 2017

- Achieved 99.1% classification accuracy using various techniques bringing me to top 34% on leaderboard.
- Implemented AlexNet architecture in Keras with Batch Normalization.
- Tried self trained outputs to improve the accuracy.

## ScrapoPedia

Gwalior, M.P, India

CREATE A NUTRITIONAL CHART OF YOUR FOOD.

June 2017

- Applied transfer learning using VGG-16 model over a self created small dataset of vegetables to achieve higher accuracy.
- Webscrapped the vegetable nutritional information from Healthline.

## Raksha

Gwalior, M.P, India

CONNECTING THE HELPER WITH THE HELPEE.

Mar 2017

- Designed the frontend of the application.

## Publications

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### Forecasting Tuberculosis Morbidity Rate

ICICSS'2018 conference

T.B MORBIDITY ANALYSIS USING A DEEP LEARNING ALGORITHM FOR BETTER RESULTS

Sept. 2018

- Presented a paper on Tuberculosis morbidity with time analysis paper in International Conference on Intelligent Computing and Sustainable System conference held under IEEE chapter.
- You can read the paper here: <https://tushardhyani.ml/files/TB%20Paper%209.1.pdf>

## Extracurricular

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2019	<b>Unschool.in</b> , Artificial Intelligence instructor	Dictionary	Indore
Oct'18	<b>Stackoverflow</b> , #6 Contributor at DataScience channel of Stack overflow		Indore
2017-18	<b>MITS ACM Students Chapter</b> , Student President & Core member		Gwalior
2018	<b>MITS Coding Club</b> , Student Chair		Gwalior
2016	<b>ISTE</b> , Graphic Designer		Gwalior