



## DHANYA SETHUMADHAVAN

Artificial Intelligence/Machine Learning

Total Experience: 6 years

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### OBJECTIVE

Certified Artificial Intelligence Engineer with a clear understanding of Machine Learning and Deep Learning Algorithms. Motivated to learn, grow, and excel in the IT industry.

### EDUCATION

#### Master of Technology •

COMPUTATIONAL ENGINEERING AND NETWORKING • 2008 • Amrita Vishwavidyapeedam

#### BACHELOR OF ENGINEERING •

COMPUTER SCIENCE AND ENGINEERING • 2005 • ANNA UNIVERSITY

### SKILLS

- Python, Pyspark, SQL
- AWS, IBM Watson, Heroku
- Tensorflow, Keras, Pytorch, OpenCV
- Git
- CNN, RNN, Computer Vision, NLP, Encoder-Decoder
- Regression, SVM, PCA, Classification, Decision Tree, Clustering
- Jupyter Notebook, Colab
- WatsonStudio, AWS sage maker
- CSS, HTML, Flask, Rest API

### PROFESSIONAL EXPERIENCE

Senior System Engineer,  
Infosys Technologies (2008-2012),  
Cross industry experience,  
(Mainframe, Java) Software Development

## PROJECTS

#### 1. Vehicle Detection, tracking and Counting: [View the project](#)

To count the automobile traffic using SSD Mobilenet, Tensorflow API, OpenCV, Python and centroid tracking algorithm. (2021)

#### 2. Building Machine learning Pipelines: [View the project](#)

Data Analysis, Feature Engineering, Feature Selection, Model building and deployment of Advanced House Price Prediction using Python. (2021)

#### 3. Object Detection using Tensorflow API: [View the project](#)

To train on a new object that is not part of the COCO dataset. The images of a toy were collected. A RetinaNet pre-trained model was used. (2021)

#### 4. Disaster Tweet- (Detecting Real or Fake):

Binary Classification, Sentiment Analysis, NLP, BERT

[Kaggle Link](#), [View the project and Kaggle Score](#) (2020)

#### 5. End to End deployment of ML Application: To forecast the

Bike sharing demand deployed in Heroku, Azure, GoogleCloud.

Python, Gradient Boost, Time series forecasting, Flask

[View the project](#), [Link to the deployment](#). (2020)

## CERTIFICATIONS AND SPECIALIZATIONS

- **IBM AI Engineering Professional Certificate**-IBM-April 2021
- Cloud Computing Basic, [\[Coursera\]](#) - [Jan 2021]
- **Advanced Computer Vision with Tensorflow**, [\[deeplearning.ai\]](#) - 2021
- Sequence Models, [\[deeplearning.ai\]](#) - [Feb 2021]
- **Convolutional Neural Networks**, [\[deeplearning.ai\]](#) - [Jan 2021]
- Deep Neural Network with Pytorch [IBM]-April 2021
- **Scalable Machine Learning on Big Data using Apache Spark**, [\[IBM\]](#) [March 2021]
- Introduction and Deep learning Neural Networks with Keras [IBM] [March 2021]
- **Building Deep Learning Models with TensorFlow** [IBM] - [March 2021]
- Deep learning Nano Degree, [\[Udacity\]](#) - [Dec 2018]