

DHAVAL DHOLAKIA

DEEP LEARNING & MACHINE LEARNING ENTHUSIAST ♦ KAGGLE COMPETITOR

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EDUCATION

Worcester Polytechnic Institute (WPI),

Masters in Data Science, GPA: 3.45/4.0

Worcester, MA

Aug 2016 - May 2018

- Notable Coursework: Predictive Modeling, Deep Learning, Big Data Management, Business Intelligence
- Frameworks/Languages: PyTorch, TensorFlow, Keras, Tableau, D3.js, Python, VBA, JavaScript

Mumbai University,

Bachelor of Engineering in Information Technology, GPA: 3.6/4.0

Mumbai, India

Aug 2010 - Aug 2014

- Notable Coursework: Advanced Databases, Data Structures, Algorithms, Artificial Intelligence
- Languages: Python, Java, C++, C# .NET, JavaScript
- Awards: 1st Place, 'Prakalpa' State Level Conference and Project Working Model Exhibition- India, 2014

EXPERIENCE

NeuroScouting LLC

DATA SCIENTIST CO-OP

Cambridge, MA

June 2017 - Apr 2018

- Performed feature engineering from different neuroscience-based evaluation and training modules.
- Implemented Elo and Microsoft TrueSkill for player and pitch ratings.
- Trained machine learning model to predict player's present/future performances.

Worcester Polytechnic Institute

GRADUATE ASSISTANT

Worcester, MA

Aug 2016 - Aug 2017

- Developed a "Refugee Placement" optimization model using 0-1 Integer Linear Programming.
- Developed an algorithm that solves a problem in maritime shipping by optimizing the inventory management using Python.

Ariston Capital Services Private Ltd, India

JUNIOR SOFTWARE DEVELOPER

Mumbai, India

May 2015 - Jun 2016

- Designed an algorithm which continuously monitors and handles the processing of Real-Time financial trading data
- Developed an industry-level trading application using C# which enables traders to trade real-time in National Stock Exchange-India (NSE)

PROJECTS

Neural-Style Transfer

Apr 2018- Apr 2018

- Implemented the Neural-style transfer model with Perceptual losses developed by Justin Johnson et al.
- The model outputs artistic content images based on the style inputs given to the network.

Data Science Bowl 2017, Kaggle

Jul 2017- Dec 2017

- Trained machine-learning algorithms to accurately determine when lesions in the lungs are cancerous.
- Wrote pre-processing scripts, data visualization programs and evaluated performance of various algorithms.
- Build 3D Convolutional Neural Network to predict if the image contains the nodule or not with 92% accuracy.

Zillow's Home Value Prediction, Kaggle

Jun 2017- Dec 2017

- Currently ranked in Top 20% of the public leaderboard for the competition.
- Performed feature engineering and feature selection. Tuned the hyper-parameters using cross-validation.

NLP Approach to identify Area of Law for Indian Law Judgments

Jan 2017- Feb 2017

- Wrote data cleaning and pre-processing scripts to process large corpus of documents.
- Trained machine-learning algorithms on the unlabeled set of documents to predict area of laws with 75% accuracy.