Curriculum vitae

PERSONAL INFORMATION

PIYUSH DONGRE

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Date of birth 17/03/1995 | Nationality Indian | Gender Male

SKILLS

- Python
- R
- SQL
- Machine Learning (Scikit-learn, Keras, Tensorflow)
- Data Analytics
- Big Data (Hadoop, Spark, Pig, Hive)
- Git
- Linux
- Docker

WORK EXPERIENCE

25/11/2017–03/08/2018

Programmer Analyst Trainee

Cognizant Technology Solutions, Pune (India)

- Designed and implemented SQL DB queries.
- Managed tasks related to Database Management in the PeopleSoft ERP Framework.
- Worked in a team which implemented PeopleSoft ERP (Finance Module)

EDUCATION

13/07/2013–15/06/2017

Bachelor of Engineering in Electronics and Telecommunications

Savitribai Phule Pune University (formerly University of Pune) (India)

01/09/2018– till 2020

Master of Science in Data Engineering

Jacobs University, Bremen (Germany)

PROJECTS

- Machine Learning-Classification for MNIST
  - Built a full processing pipeline from feature extraction to implementing ridge regression for classifying handwritten digits.
  - Dimension Reduction using PCA algorithm.
  - Executed k-fold Cross Validation and achieved 94.1% accuracy.
  - Implemented K-means clustering algorithm.
- Human Activity Recognition (Bremen Big Data Challenge 2019) using Scikit-Learn library (Python)
  - Performed Data cleaning.
  - Feature Engineering to construct new features.
  - Built a Classifier which resulted in 82% accuracy

- Convolutional Neural Network on CIFAR-10 (classification)
  - Normalized image features and one-hot encoded the target class.
  - Developed a CNN, evaluated it and achieved 80% accuracy.
- Convolutional Neural Network on Flowers
  - Trained a classifier to classify 102 classes (flowers).
  - Achieved 93% accuracy on validation set.
  - Used InceptionV3 architecture to classify the flowers.
- Sentiment Analysis
  - Built an NLP model for sentiment analysis
  - Pre-processed data before applying Bag of Words model.
  - Built a model for positive and negative reviews classification.
- Developed a Machine Learning based web application and deployed it on Azure using Docker:
  - Built a Profit prediction model for start-ups.
  - Used Docker to create Docker Files, Images and Containers, published Docker Images into DockerHub.
  - Deployed the model on MS Azure.
- Data Analytics with R
  - Applied Multiple Linear Regression, Logistic Regression for prediction tasks.
  - Used Logistic Regression, KNN and Random Forest Classifier for Classification tasks.
- Big Data:
  - Implemented Hortonworks Sandbox on Microsoft Azure
  - MapReduce with Python.
  - Spark with Python.
  - Installed a dataset on the Hadoop Cluster using Ambari UI and Command Line Interface.
- Prototype Jupyter widget for Web-Mapping (Data Visualization)
  - Mapping of data (GeoJSON format).
  - Implemented a functionality to interact with the data.
  - Developed a functionality to plot double-clicked datapoints from a data frame.
  - Comparison of Web-Mapping algorithms
- Modelling and Analysis of Complex System using Python (Scipy, Numpy and Matplotlib libraries)
  - Created models using Ordinary Differential Equations.
  - Built Agent Based Models.
- Relational Database Management Systems (using MySQL)
  - Designed ERP diagram for Workforce Management System and deployed it using MySQL.

CERTIFICATES

- Understanding & Visualizing Data with Python
- Introduction to Deep Learning
- Machine Learning A-Z: Hands on Python and R

LANGUAGES

- English - Fluent
- German - A2