SHWETA YADAV

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Knowledgeable and solution-oriented Computer Scientist with strong foundation in programming logic, algorithms, statistics, data science and cross-platform coding.

SKILLS:

- Python(proficient)
- SQL(proficient)
- R(experienced)
- C++(experienced)
- Tableau
- Problem solving
- Data Analysis
- Data Visualization
- AWS
- Excel

EDUCATION:

University of Colorado, Denver, CO — Aug 2018-May 2020
Master of Science, Computer Science with emphasis on Data Science — GPA - 3.6

Govind Ballabh Pant Engineering College, Pauri, India — Aug 2014 – Jun 2018
Bachelor's in Technology, Computer Science

Relevant courses

- Big Data Mining
- Big Data Science
- Object Oriented Programming
- Deep Learning
- Algorithms
- Data Structures
- Machine Learning
- Database Management Systems

EXPERIENCES:

Research Assistant: *University of Colorado, Denver* — Spring 2019 - 2020

- Working with meta-heuristic search method that employs local search methods used for mathematical optimization, specifically Tabu search algorithm. Language: C++
- Optimizing Knapsack algorithm: Solvers: CPLEX, Gurobi

Teaching Assistant: *University of Colorado, Denver* — Fall 2019- Spring 2020

Teaching and grading, which requires the knowledge of:

- R programming, Descriptive Statistics, Simple and Multiple linear regression Analysis, Time Series Forecasting, Classification, cross validation, and regression with high dimensional data.

PROJECTS:

Audio Tagging — Spring 2020

- Recognizing and classifying the sounds from real world environment by extracting necessary features with AlexNet and VGG on a very large dataset
- Comparison is done between models built from raw data, extracted features and transfer learning

Sick Note Generator — Fall 2019

- Created a document that looks handwritten for a personalized touch in large, mass produced mailings.
- Implemented Generative Adversarial Networks and Recurrent Neural Networks in Keras and TensorFlow on AWS

CompuRay with HoloLens — Fall 2018

- Identified real-time objects with the 436 manually tagged images data trained by Microsoft Azure Custom Vision's Machine Learning algorithm.
- Successfully got 63.4% Precision in mapping the identified objects to label them using Microsoft HoloLens, Unity and Visual Studio.

Tackling Counterfeited ECG Detection — Fall 2018

- Successfully did feasibility study on the counterfeited ECG signal detection, developed an algorithm, on MATLAB, to detect the fake ECG signals with an accuracy of 90%.