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Aravind Kolli

▬▬▬ Education

Sep 2021 -
June 2023
Oregon State University,
Computer Science (Spl: AI), Master of Science, Corvallis, US.
GPA – 3.45/4

2015 - 2019
Prasad V Potluri Siddhartha Institute of Technology,
Computer Science and Engineering, Bachelor of Technology, Vijayawada, IN.
GPA – 8.47/10

▬▬▬ Work Experience

Sep 2021 -
Present
Graduate Teaching Assistant, OREGON STATE UNIVERSITY.
- Working as a Graduate Teaching Assistant CS 461 - Online Capstone Project for Winter 2022 term.
- Employed as a Graduate Teaching Assistant CS 261 - Data Structures for Fall 2021 term.

Jul 2019 -
Sep 2021
Systems Engineer, TATA CONSULTANCY SERVICES (T.C.S).
- Worked in the Data Analytics and Visualization team which was a part for the Client VIAVI solutions.
- Refined and Implemented a solution to automatically bring out pre-processed data by creating a data profile with required plots and statistics. This enabled to reduce the work time for about 50%.
- Worked as a team member for the Data Science and Artificial Intelligence (Research and Development)for client Tata Motors.
- The task is to analyze and interpret business problems by tuning and analysing data by machine learning algorithms.

Summer
2018
Research Intern, INTERNATIONAL INSTITUTE OF INFORMATION TECHNOLOGY, HYDERABAD (IIIT-H).
Guide: Prof. Anil Kumar Vuppala and Prof. Krishna Reddy.
- Implemented a conversational bot using Speech Processing and Synthesis on the Raw Speech for the Telugu language.
- Created a module for a mobile application named Plantix to detect crop diseases using RCNN.

▬▬▬ Projects

Dec 2018 -
Apr 2019
Cancer classification using Machine Learning, *CODE*.
- Developed a classification model to classify different types of cancer based on given input data (Gene, variation and text) using various machine learning techniques.
- This model uses nine different classes. Here, genetic mutation can be categorize into multi-class classification problem.
- KNN, SVM and Random forest are some of the classifiers picked for this project.
- loss functions drawn-down are multi class log loss and confusion matrix.
- This project uses the MSKCC data set obtained from Kaggle.

Jun 2018 -
Dec 2018
Quora question pairs similarity, *CODE*.
- The task to find if a posted question is a duplicate version for questions asked on Quora, thus enabling to provide fast and accurate answers to question which have already been answered.
- This turned out to be a binary classification problem, for a given pair of questions.
- To solve the problem logistic regression is carried-out along with linear SVM, where hyper parameter tuning was performed to optimize it to work with xg-boost algorithm.

Jun 2018 -	**Amazon fine food Review Analysis**, *CODE*.
Dec 2018	○ The task here is to find whether the review is positive (rating of 4 or 5) or negative (rating of 1 or 2) for a given review.
	○ Implemented SVMs, Random forest, Decision Trees, Clustering, Logistic Regression, Naive Bayes, and KNN to create optimal output to search positive or negative for given review.
Jun 2018 -	**New York Yellow taxi demand prediction**, *CODE*.
Dec 2018	○ The problem is to find the number of pickups at a given time for a required location.
	○ The data collected from January 2015 - March 2015 is used to train the model to predict the pickups from January 2016 - March 2016.
	○ The solution uses time series forecasting and regression to predict the output.
Jun 2018 -	**Stack Overflow tag predictor**, *CODE*.
Dec 2018	○ This project requires to generate tags for given content, this can be classified as a multi-class classification problem.
	○ The performance metric considered for problem are mean f1 score, micro f1 score, macro f1 score and hamming loss).

Achievements

Mar 2021	**Extra-ordinary performer of the Quarter**, *TCS*.
	○ Achieved highest T-factor in business unit(AI/IOT and telecom) of TCS.
	○ LinkedIn Post

Skills

Languages	Python, C, Java
Frameworks	sklearn, pyspark, Keras, PyTorch, Tensorflow
DataBase	MySQl
Data Analytics	Pandas, Numpy, Seaborn, Matplotlib,
Utilities	Anaconda, Git, Jira, Jupyter Notebook

Relevant Courses

Online	NLP in TensorFlow, Deep Learning.Ai Specialization, Convolutional Neural Networks in Tensor-Flow, Machine Learning: Regression, Introduction to Statistics and Probability, Microsoft Azure AI Fundamental[AI 900]
Classroom	Machine Learning, Applied Multi-variate Analysis, Methods of Data Analysis, Machine Learning challenges, Software Engineering Methods.