RAJAN PARASHAR

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OBJECTIVE

Software developer with 3+ years of experience in Python Programming and Machine Learning. Looking for opportunities to secure position in a reputable company for professional growth.

EXPERIENCE

Cellworks Research India Pvt Ltd   September 2017 - Present
Python Developer and Machine Learning Engineer

Owner of complete SDLC flow for the tools developed using Python Programming.

Involved in development of multiple classification models using genomics data.

EDUCATION

Acharya Institute Of Technology   2013 to 2017
Bachelor's degree in Computer Science and Engineering
With aggregate of 73 %

SKILLS

Programming/Scripting Languages - Python, Bash, JavaScript, C, C++

IDE - Pycharm, Jupyter notebook, Sublime text, Jupyter lab

ML libraries - scikit- learn, pandas, numpy, matplotlib   Database- MySQL, Oracle SQL   Cloud - AWS

Operating System - Linux, Windows

PROJECTS

Simulation Classifier
Technologies Used - **Python, scikit-learn, pandas**

Analysing output of simulation and building a feature selection algorithm on top of it by using techniques like **ANNOVA**, Linear Discriminant Analysis (**LDA**), Recursive feature elemination (**RFE**), and **Logistic regression**.

Handling unbalanced data by applying **Oversampling/Undersampling** using techniques like **SMOTE, ROS, Cluster centroid** and **Neighbourhood cleaning rule**.

Build multiple classification models like Random forest(**RFC**), Support vector(**SVC**), K nearest neighbour (**KNN**), **Adaboost** etc.

Ensemble prediction of multiple classification models to provide final outcome.

Auto Therapy Rationale
Technologies Used - **Python, networkx, BeautifulSoup, MySQL**

Transform gene to gene connection from biological model into a weighted bidirectional graph using **networx** module.

Find shortest path between set of start and end points using techniques like **Dijkstra shortest path, Breadth first search (BFS) and Depth first search (DFS)** and provide report for further usage.

ACHIEVEMENTS & AWARDS

Two time Hall of Fame winner for best contributing employe of the team.

Abstract submission in ASCO 2020 and ASCO 2021 for simulation based classifier.