Rachana Uniyal

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EDUCATION

UNIVERSITY OF HYDERABAD

M.Tech in Information Technology
2018 - 2020 | Hyderabad, India
CGPA: 8.15 / 10

GRAPHIC ERA HILL UNIVERSITY

B.Tech in Information Technology
2012 - 2016 | Dehradun, India
CGPA: 7.7 / 10

ACHIEVEMENTS

- Over 300 questions across various programming platforms.
- Acquired **95.29** percentile in GATE CS & IT 2018
- Awarded with INSPIRE - Scholarship for Higher Education , During Intermediate.

COURSEWORK

Business Data Analysis
Data Structures and Algorithms
Operating Systems
Database Systems
Machine Learning
Pattern Recognition

SKILLS

PROGRAMMING

- Python3
- C++(STL)
- HTML/CSS
- SAS (familiar)
- Java Springboot
- Javascript

TOOLS & TECH

- Git/Github
- ReactJs
- MongoDB
- Docker
- Linux
- Heroku
- NodeJs
- Tensorflow

ML ALGORITHMS

- Implemented decision trees,regression, CNN, neural networks, KNN, PCA, K-Means clustering and others from scratch.

LINKS

LeetCode:// **rachana-uniyal**
Github:// **rachana-uniyal**
LinkedIn:// **rachana-uniyal**

FREELANCING EXPERIENCE

Jul 2020 - Dec 2020

IMPRESSIVE CUP | Node.js | Express.js | Heroku

- A scalable RESTful web application for a customized mug printing startup.
- Highly available containerized application having Authentication feature using SQL database with automated process of deployment using heroku CLI.

PROJECTS

FUZZY CONVOLUTIONAL NEURAL NETWORK | Image Classification | Thesis

- Studied the performance of Convolution Neural Networks after incorporating fuzziness in two ways, first by adding fuzziness in data and second by adding fuzziness to model.
- Under the second way of incorporating fuzziness we developed a new pooling method based on fuzzy logic named **Gaussian sum pooling** that gave accuracy of 86.20

CHURN PREDICTION IN TELECOMMUNICATION COMPANY | Machine Learning

- Developed a machine learning framework that will predict that whether a customer will leave a telecommunication company or not.
- We analysed different models by training them on multiple attributes to get the most suitable model that will predict the behaviour of users.
- Used various Machine Learning classification models like SVM, Decision Trees etc for predictions.
- Libraries : scikit-Learn, pandas, matplot-Lib.

ENERGY PERFORMANCE PREDICTION OF RESIDENTIAL BUILDINGS | Machine Learning

- Developed a machine learning framework using a regression algorithm to calculate the required energy consumption of buildings.
- Systematic exploratory data analysis of each input and output variables and have studied how they are related.
- Libraries : scikit-Learn, pandas, matplot-Lib.

CL-AFF SHARED TASK : IN PURSUIT OF HAPPINESS | Natural Language Processing

- Predicted happy moments by modeling the experiential, contextual, and agentic attributes of happy moments.
- Calculated the happy moments Agency and Social Labels for happy moments based on a small labeled and large unlabeled training data.

WIKIPEDIA WATCHING | Data Processing

- Used Wikipedia Streaming API to generate pipelined reports on every 5 minutes to get the updates being done on Wikipedia websites.
- Real time generation of domain and user report consisting of updated Wikipedia pages and edit count done by users.