Rahul Nair

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SUMMARY: Graduate student pursuing Master of Data Science at Illinois Institute of Technology. Passionate about working with data and deriving impactful insights out of data. Looking for Data Science Internship opportunities.

EDUCATION

Master's of Science: Data Science Illinois Institute of Technology **(GPA-3.33)** Aug 2019 – May 2021
Bachelor of Technology: Computer Science University of Petroleum and Energy Studies **(GPA-3.47)** Aug 2015 – June 2019

SKILL SET

Languages: Python (NumPy, SciPy, Pandas, Scikit Learn, Matplotlib), R (tidyverse, rcpp, dplyr, lubridate), Scala, Java, SQL, C, C++, Pyspark

Databases: Ambari, Hadoop, MapReduce, HBase, MongoDB, Pig, Hive, Cassandra, MySQL, PostgreSQL, Neo4j, BigQuery

Tools/Platforms: Microsoft Azure, AWS, Apache Spark, GraphX, Gephi, Docker, OpenCV, TensorFlow, GitHub, Tableau, DJANGO, FLASK, Google Analytics

Certifications: Object Oriented Programming in Java (UC San Diego) - Coursera.

WORK EXPERIENCE

Machine Learning Intern, Epic Minds IT Pvt. Ltd. Jun 2018 – Aug 2018
- o Responsible for building an image classification model using python which could classify the plant disease into any of the 10 categories with an **accuracy of 86%.**
- o Used Google Inception v3 model for training along with DJANGO and FLASK to integrate the model with an interface.
- o Developed a web-app, "Plant Disease Detector" which detects diseases in plants.

Research Assistant, Illinois Institute of Technology May 2020 – Present
- o Currently working on Chicago Crime Data provided by Chicago Justice Project. Under Prof. Shlomo Argamon.
- o Main deliverable is to structurize the data, perform exhaustive data analysis.
- o Final work will be to create a predictive model.

ACADEMIC PROJECTS

Yelp Recommender System for Restaurants, Illinois Institute of Technology Jan 2020 – May 2020
- o Built a fully deployed recommender system for suggesting restaurants to users using hybrid matrix factorization method.
- o Analyzed other algorithms such as content-based, collaborative, Approximate nearest neighbor, etc. and tweaked the hyperparameters using Bayesian optimization using 'scikit-optimizer'.
- o Deployed the final model using Angular JS and Flask.

StackOverflow Data Analysis, Illinois Institute of Technology Oct 2019 Dec 2019
- o Responsible for creating a "Tag Predictor" using Pyspark which predicts tags for any StackOverflow post with an **accuracy of 83%.**
- o Extracted StackOverflow data using BigQuery.
- o Ran queries on Hive and Pig on the dataset to execute certain analysis.

Facial Expression Identifier, University of Petroleum and Energy Studies Aug 2018 – Dec 2018
- o Responsible for building an image classification model using Python which could classify the image taken   live by webcam into any of the 4 categories with an **accuracy of 84%.**
- o Used Google Inception v3 model for training along with DJANGO and FLASK to integrate the model with an interface.
- o Developed a web-app, "Facial Expression Identifier" which predicts the facial expression of the person.

PERSONAL PROJECTS

Accident Severity Prediction Nov 2019 – Dec 2019
- o Built a prediction model for predicting severity of an accident using US Accidents Dataset from Kaggle using XGBoost Classifier with an accuracy of **90.29%.**
- o Analyzed other algorithms such as Logistic Regression, Decision Tree Classifier, Random Forest, etc. and tweaked the hyperparameters using Bayesian optimization using 'scikit-optimizer'.