Rahul Nair

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EDUCATION

Master's of Science: Data Science Illinois Institute of Technology Aug 2019 – May 2021

Bachelor of Technology: Computer Science University of Petroleum and Energy Studies 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, , Docker, OpenCV, TensorFlow, GitHub, Tableau, DJANGO, FLASK, Google Analytics

WORK EXPERIENCE

Research Assistant, Illinois Institute of Technology May 2020 – Present

- Currently working on Chicago Crime Data provided by Chicago Justice Project under Prof. Shlomo Argamon.
- Structurized the data and performed an exhaustive data analysis using python.
- Final deliverable is programming a predictive model and make a user-interactive interface.

Machine Learning Intern, Epic Minds IT Pvt. Ltd. June 2018 – Aug 2018

- Built an image classification model using python which classifies the plant disease into any of the 10 diseases with an **accuracy of 86%.**
- Used Google Inception v3 model for training along with DJANGO and FLASK to integrate the model with an interface.
- Implemented a web-app "Plant Disease Detector" which detects diseases in plants.

ACADEMIC PROJECTS

Yelp Recommender System for Restaurants, Illinois Institute of Technology Jan 2020 – May 2020

- Developed an end-to-end recommender system using python to suggest restaurants to users using hybrid matrix factorization method with an AUC score of **0.97.**
- Analyzed other algorithms such as content-based, collaborative, Approximate nearest neighbor, etc. and tweaked the hyperparameters using Bayesian optimization using 'scikit-optimizer'.
- Deployed the final model using Angular JS and Flask.

StackOverflow Data Analysis, Illinois Institute of Technology Oct 2019 - Dec 2019

- Created a "Tag Predictor" using Pyspark which predicts tags for any StackOverflow post with an **accuracy of 83%.**
- Extracted StackOverflow data using BigQuery.
- Ran queries on Hive and Pig on the dataset to perform some exhaustive data analysis.

Facial Expression Identifier, University of Petroleum and Energy Studies Aug 2018 – Dec 2018

- Devised 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%.**
- Used Google Inception v3 model for training along with DJANGO and FLASK to integrate the model with an interface.
- Launched a web-app "Facial Expression Identifier" which predicts the facial expression of the person.

PERSONAL PROJECTS

Accident Severity Prediction Nov 2019 – Dec 2019

- Deployed a prediction model using python for predicting severity of an accident with a F_1 beta score of **0.9029**.
- Analyzed other algorithms such as Logistic Regression, Decision Tree Classifier, Random Forest, etc. and tweaked the hyperparameters using Bayesian optimization using 'scikit-optimizer'.
- Used Angular JS and Flask for deployment.

CO-CURRICULAR ACTIVITIES:-

- **Public Relations(Smart Analyzers):-** Organized various hackathons and coding workshops.
- **Discipline Committee Member:-** Conducting various cultural programs and maintained decorum during the event.
- **Soch (NGO):-** Lead the initiative to provide primary education to children in rural areas.