Rahul Nair

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EDUCATION

2019 - 2021 **ILLINOIS INSTITUTE OF TECHNOLOGY** Chicago, IL
Master's in Science : Data Science
GPA:- 3.33

2015 - 2019 **UNIVERSITY OF PETROLEUM AND ENERGY STUDIES** Dehradun, Uttarakhand
Bachelor of Technology: Computer Science
GPA:- 3.47

SKILLS

Python (NumPy, SciPy, Pandas, Scikit Learn, Matplotlib), R (tidyverse, caret, dplyr, lubridate), Scala, Java, SQL, C, C++, Pyspark. Ambari, Hadoop, MapReduce, HBase, MongoDB, Pig, Hive, Cassandra, MySQL, PostgreSQL, Neo4j, BigQuery. Microsoft Azure, AWS, Apache Spark, GraphX, Docker, OpenCV, TensorFlow, GitHub, Tableau, DJANGO, FLASK, Google Analytics.

WORK EXPERIENCE

2020 - 2020 **ILLINOIS INSTITUTE OF TECHNOLOGY** Chicago, IL
Research Assistant
- Examined Chicago Crime Data provided by Chicago Justice Project.
- Structured the data and performed an exhaustive data analysis leveraging python.
- Programmed a predictive model and make a user-interactive interface.

2018 - 2018 **EPIC MINDS IT PVT. LTD.** Bengaluru, Karnataka
Machine Learning Intern
- Built an image classification model using python to classify plant disease into any of the 10 diseases with an accuracy of 86%.
- Utilized 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 to detects diseases in plants.

PROJECTS

2020 - 2020 **YELP RECOMMENDER SYSTEM FOR RESTAURANTS** Chicago, IL
- Developed an end-to-end recommender system leveraging python to suggest restaurants to users utilizing hybrid matrix factorization method with an AUC score of 0.97.
- Analyzed other algorithms such as content-based, collaborative, Approximate nearest neighbor, etc. and tuned hyperparameters operating Bayesian optimization'.
- Deployed final model as a web-app employing Angular JS and Flask.

2019 - 2019 **STACKOVERFLOW DATA ANALYSIS** Chicago, IL
- Created a Tag Predictor operating Pyspark to anticipate tags for any StackOverflow post with an accuracy of 83%.
- Extracted Stackoverflow Data operating Bigquery using SQL queries.
- Ran queries on Hive and Pig on dataset to perform some exhaustive data analysis.

2018 - 2018 **FACIAL EXPRESSION IDENTIFIER** Dehradun, Uttarakhand
- Devised an image classification model using Python to classify images taken live by webcam into any of 4 categories with an accuracy of 84%.
- Modified Google Inception v3 model for training along with DJANGO and FLASK to integrate prepared model with an interface.
- Launched a web-app Facial Expression Identifier predict facial expression of a person.

PERSONAL PROJECTS

2019 - 2019 **ACCIDENT SEVERITY PREDICTION** Chicago, IL
- Deployed a prediction model operating 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 hyperparameters using Bayesian optimization using scikit-optimizer'.
- Supplemented model as web-app employing Angular JS and Flask for deployment.

EXTRACURRICULAR

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