

# Rahul Nair

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## EDUCATION

2019 - 2021	<b>ILLINOIS INSTITUTE OF TECHNOLOGY</b> <i>Master's in Science : Data Science</i>	Chicago, IL
2015 - 2019	<b>UNIVERSITY OF PETROLEUM AND ENERGY STUDIES</b> <i>Bachelor of Technology: Computer Science</i>	Dehradun, Uttarakhand

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## SKILLS

Python (NumPy, SciPy, Pandas, Scikit Learn, Matplotlib), R (tidyverse, rcpp, 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.

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## WORK EXPERIENCE

2020 - 2020	<b>ILLINOIS INSTITUTE OF TECHNOLOGY</b> <i>Research Assistant</i> <ul style="list-style-type: none"><li>Examined Chicago Crime Data provided by Chicago Justice Project.</li><li>Structured the data and performed an exhaustive data analysis leveraging python.</li><li>Programmed a predictive model and make a user-interactive interface.</li></ul>	Chicago, IL
2018 - 2018	<b>EPIC MINDS IT PVT. LTD.</b> <i>Machine Learning Intern</i> <ul style="list-style-type: none"><li>Built an image classification model using python to classify plant disease into any of the 10 diseases with an accuracy of 86%.</li><li>Utilized Google Inception v3 model for training along with DJANGO and FLASK to integrate the model with an interface.</li><li>Implemented a web-app Plant Disease Detector to detects diseases in plants.</li></ul>	Bengaluru, Karnataka

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## PROJECTS

2020 - 2020	<b>YELP RECOMMENDER SYSTEM FOR RESTAURANTS</b> <ul style="list-style-type: none"><li>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.</li><li>Analyzed other algorithms such as content-based, collaborative, Approximate nearest neighbor, etc. and tuned hyperparameters operating Bayesian optimization'.</li><li>Deployed final model as a web-app employing Angular JS and Flask.</li></ul>	Chicago, IL
2019 - 2019	<b>STACKOVERFLOW DATA ANALYSIS</b> <ul style="list-style-type: none"><li>Created a Tag Predictor operating Pyspark to anticipate tags for any StackOverflow post with an accuracy of 83%.</li><li>Extracted Stackoverflow Data operating Bigquery using SQL queries.</li><li>Ran queries on Hive and Pig on dataset to perform some exhaustive data analysis.</li></ul>	Chicago, IL
2018 - 2018	<b>FACIAL EXPRESSION IDENTIFIER</b> <ul style="list-style-type: none"><li>Devised an image classification model using Python to classify images taken live by webcam into any of 4 categories with an accuracy of 84%.</li><li>Modified Google Inception v3 model for training along with DJANGO and FLASK to integrate prepared model with an interface.</li><li>Launched a web-app Facial Expression Identifier predict facial expression of a person.</li></ul>	Dehradun, Uttarakhand

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## PERSONAL PROJECTS

2019 - 2019	<b>ACCIDENT SEVERITY PREDICTION</b> <ul style="list-style-type: none"><li>Deployed a prediction model operating python for predicting severity of an accident with a F_1 beta score of 0.9029.</li><li>Analyzed other algorithms such as Logistic Regression, Decision Tree Classifier, Random Forest, etc. and tweaked hyperparameters using Bayesian optimization using scikit-optimizer'.</li><li>Supplemented model as web-app employing Angular JS and Flask for deployment.</li></ul>	Chicago, IL
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## 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.