

Rahul Nair

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EDUCATION

2019 - 2021	ILLINOIS INSTITUTE OF TECHNOLOGY Master's in Science : Data Science GPA:- 3.55	Chicago, IL
2015 - 2019	UNIVERSITY OF PETROLEUM AND ENERGY STUDIES Bachelor of Technology: Computer Science GPA:- 3.47	Dehradun, Uttarakhand

SKILLS

Languages: Python , R, Scala, Java, SQL, C, C++, Pyspark
Databases: MapReduce, MongoDB, Pig, Hive, Cassandra, MySQL, PostgreSQL, Neo4j, BigQuery
Tools: Google Analytics, FLASK, Microsoft Azure, AWS, Docker, OpenCV, TensorFlow, GitHub, Tableau, DJANGO

WORK EXPERIENCE

2020 - 2020	ILLINOIS INSTITUTE OF TECHNOLOGY <i>Research Assistant</i> <ul style="list-style-type: none">Examined Chicago Crime Data provided by Chicago Justice Project from 1996 – 2020.Structured the data and performed an exhaustive data analysis leveraging python to find out certain patterns.Programmed a predictive model integrating it with a user-interface using FLASK.	Chicago, IL
2018 - 2019	EPIC MINDS IT PVT. LTD. <i>Machine Learning Intern</i> <ul style="list-style-type: none">Built an end-to-end image classification model using python to predict the disease which the plant has with an accuracy of 86%.Utilized Google Inception v3 model for training along with DJANGO and FLASK to integrate the model with an interface.	Bengaluru, Karnataka

PROJECTS

2020 – 2020	CLUSTERING AND REGRESSION ANALYSIS OF GERRYMANDERING <ul style="list-style-type: none">Performed an exploratory data analysis on 2012 and 2018 plans to find out the issues in 2012 redistricting plan of PA.Implemented weighted k-means to develop a new redistricting plan for PA making sure the population distribution remains proportionate across districts. This new plan has improved the fairness by about 60%.Experimented certain regression analyses such as Best Subset, Ridge and Lasso to find which factors influence elections the most.	Chicago, IL
2020 - 2020	YELP RECOMMENDER SYSTEM FOR RESTAURANTS <ul style="list-style-type: none">Developed an end-to-end recommender system leveraging python to suggest restaurants to users utilizing hybrid matrix factorization method with an accuracy of 97%.Analyzed other algorithms such as content-based, collaborative, Approximate nearest neighbor, etc. and tuned hyperparameters using Bayesian optimization.Deployed final model as a web-app employing Angular JS and Flask.	Chicago, IL
2019 - 2019	STACKOVERFLOW DATA ANALYSIS <ul style="list-style-type: none">Ran queries on Hive and Pig on dataset to perform some exhaustive data analysis.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.	Chicago, IL
2018 - 2018	FACIAL EXPRESSION IDENTIFIER <ul style="list-style-type: none">Devised an end-to-end image classification model to predict facial expressions using images taken live by a webcam with an accuracy of 84%.Used Google Inception v3 model for training along with DJANGO and FLASK to integrate prepared model with an interface.	Dehradun, Uttarakhand

EXTRACURRICULAR

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