

# Nikhil Agarwal

CLOUD · DATA SCIENCE · MACHINE LEARNING

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I am Pursuing my MSc in Data Science and am interested in latest data related technologies. I have been exploring trending technologies like AWS, Data Science, Kubernetes and Machine learning and am actively seeking Opportunities in these domains.

## Skills

- Languages - python, SQL, R, C, C++, HTML, CSS, JavaScript
- DataBases - MYSQL, Neo4j graph database
- Tools - Tableau, MS Excel, Terraform, Docker, Kubernetes
- AWS Services - EC2, S3, EBS, EFS, IAM, VPC, Route53, RDS, Lambda, Cloudwatch, EKS, ELB

## Projects

### Standalone Movie Recommendation System

TOOLS USED INCLUDE PYTHON, FLASK, RIVESCRIPT, JAVASCRIPT, HTML, CSS

- Designed Movie Recommendation System based on different parameters given by user like similar movie, genre or language.
- Designed a user friendly web application using java script and flask which would help the user search for movie recommendations.
- Integrated a flow based chatbot written using RiveScript in the UI that interacts with the user and makes the recommendations.
- NLP Based Techniques were used for data cleaning, TFIDF and cosine similarity were used for computing movie similarities vector.
- Collected user data through survey and analysed it to recommend most liked and preferred movies by the users.

### Analysis of Google Play Store Data

TOOLS USED INCLUDE PYTHON, JUPYTER NOTEBOOK, SEABORN, PANDAS, NUMPY

- Analysed Google play store app data collected from kaggle to derive multiple insights like number of app installs per year, rating statistics etc.
- Preprocessed 2.3+ million rows of data and carried out missing value imputation logically for the same.
- Assessed imputation validity statistically using Spearman's rank correlation coefficient and by comparing correlation matrices.
- Created interactive visualisation of generated insights using ipywidgets, seaborn, wordcloud, pywaffle etc.

### Analysis Of Agriculture Infrastructure in Uttar Pradesh

TOOLS USED INCLUDE SATSCAN, MS-EXCEL, PYTHON, TABLEAU, JUPYTER NOTEBOOK

- Analysed district wise productivity of 20 crops in Uttar Pradesh using data collected from ICRISAT organisation.
- Visualised data using tableau story which was produced after preprocessing data in Python.
- Applied Hotspot analysis to find the district wise Hotspot of crops in Uttar Pradesh using SatScan.

### CAMPUS HALL BOOKING SYSTEM

TOOLS USED INCLUDE HTML, CSS, JAVASCRIPT, PHP, BOOTSTRAP, MYSQL, FIGMA

- Lead the team of 3 in building a web application that would help in managing College Campus activities.
- Designed UI Prototype of the website using Figma and used PHP as backend to manage MySQL database.

## Education

### Vellore Institute Of Technology

MSC DATA SCIENCE

8.32 CGPA

Aug. 2021 - Present

### Dr Vishwanath Karad's MIT-World Peace University

BSC COMPUTER SCIENCE

9.83 CGPA

July. 2018 - May. 2021

## Certificates and Workshops

- Artificial Intelligence & Machine Learning Specialization, By LetsUpgrade.
- Completed Python course by University of Michigan – Coursera.
- AWS Training, By LinuxWorld Informatics Pvt Ltd.
- Hybrid Cloud Computing Training, By LinuxWorld Informatics Pvt Ltd.
- Attended MIT- WPU Winter School'19 held in Association with Microsoft.
- Kubernetes Training, By LinuxWorld Informatics Pvt Ltd.
- Terraform Training, By LinuxWorld Informatics Pvt Ltd.

## Achievements and Hobbies

- Awarded Bronze Medal for excellent Academic Performance while pursuing BSc Computer Science.
- Awarded Student Scholarship for Academic Year 2020 and 2021 (for rank holders).
- Hobbies Include Photography, Currency collection, Travelling and Gaming.