AYUSH RANJAN

Data Science graduate with experience in working with python and R. With hands-on SQL and modeling experience. Communicating information through simple visualizations is a skill I am proud of.

Portfolio website (click here)

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SKILLS

R

PYTHON

DATA CLEANING & EXPLORATION

DATABASE (SQL/NoSQL)

TABLEAU

MACHINE LEARNING (Regression, Decision tree, Ensemble learning)

R packages (dplyr, tidyverse, ggplot)

Python packages(pandas, matplotlib, sklearn)

AWS

EDUCATION

MASTER OF DATA SCIENCE (*2019-2021*)
RMIT, AUSTRALIA

BACHELOR OF ELECTRONICS AND COMMUNICATION (*2014-2018*)
MANIPAL UNIVERSITY JAIPUR, INDIA

WORK EXPERIENCE

4D Visualization of Additive Manufacturing Parts (*March 2021 – June 2021*)

RMIT, Australia

Our research team at RMIT is working to develop a proprietary framework to inspect data collected from Lasertec 65 3D 5-axis printers.

- Design visualizations using Paraview.
- Using Python to design and build framework in a user friendly.
- Building model to tune printer parameters for reducing defects in build parts.
- Presenting and reporting insights.

Analytics Consultant Intern (*March 2019- June 2019*)

Redwood analytics , India

Redwood analytics is a data science consultation organization that provides products a services to help clients make sense of their data and support decision making.

- SQL queries and reporting.
- Data cleaning and EDA (Exploratory Data Analytics) to ensure data quality.
- Building dashboards using Tableau.
- Consult clients to help choose appropriate products offered by the organization.

PROJECTS

Writing heap file and building Index

In this project I used Java to design a command line app that reads a large csv files and convert it in a binary heap. The app also allows to Build an Index on one of the fields. The app was used to report on performance difference in different types of index structures used in databases and the effect they have on performance of different types of queries.

Ames Housing Price Prediction App (project page)

Designed a web app for Kaggle competition, challenging to build a regression model capable to give accurate house price predictions. Analyzed data and engineered features, trained and compared different regression models to select the best ones. Build an UI for the model and deployed it on AWS. Ranked in top 39% among 60K participants.

Spotify song recommender app (project page)

Designed a web app integrated with Spotify API, that recommends songs from a target playlist given a source playlist. The app uses cosine similarity to find most similar songs based on aggregated source playlist vector.