

Mrugank Milind Akarte

509W 110St, #4A, New York - 10025

9179008603 | mma2247@columbia.edu | [LinkedIn](#) | <https://mrugankakarte.github.io/>

EDUCATION

Columbia University

New York, NY

Aug 2019 - Dec 2020

Master of Science, Data Science

Coursework: Probability and Statistics, Exploratory Data Analysis and Visualization, Algorithms for Data Science, Machine Learning and High Dimensional Data Analysis

Vishwakarma Institute of Technology

Pune, IN

Aug 2014 - May 2018

B.Tech. Production Engineering, CGPA: 9.44/10

Department topper for three consecutive academic years 2015-18.

Coursework: Manufacturing Processes, Material Science, Design of machine elements, Production planning and control, Manufacturing Simulation, Quality management

SKILLS

R (keras, ggplot2, plotly, shiny, tensorflow, dplyr, shiny), Python (keras, tensorflow, numpy, pandas), Machine learning, SQL

EXPERIENCE

Ellicium Solutions Pvt. Ltd

Data Science Intern

Jan 2018 - May 2018

- Data cleaning, manipulation and model testing for a customer retention project in Insurance domain.
- Developed a submodule to capture data for real time analysis of machine data using R.
- Application to execute business specific rules using java, drools and spark.
- Demonstrated python-based rule engine to evaluate business specific rules using spark as execution engine.

PROJECTS

MineRL: Sample efficient reinforcement learning using human priors

July 2019

- Developed a reinforcement learning system to navigate to a diamond block in Minecraft using provided dataset of human demonstrations.

Toxic Comments Classifier

March 2018

- Multi-headed model that's capable of detecting different types of toxicity like threats, obscenity, insults, and identity-based hate was developed using recurrent neural networks on Wikipedia comments dataset.
- A real time interactive application was also developed using Shiny in R to determine toxicity in a sentence using same model.

Predictive Text Model

June 2017

- A model to predict next word was developed using n-grams model on news articles and blogs. Average runtime for prediction was 40msec with less than 60mb of memory consumption.

- Presented a paper 'Predictive Maintenance of Air Pressure System using Boosting Trees: A Machine learning approach', at 51st Operational Research Society of India 2018 International Conference at IIT Bombay. (Dec 2018)

HOBBIES

Computer games, Music, Lawn Tennis, Movies