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AMEYA KARNAD

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EDUCATION

Columbia University

New York, NY

Master of Science, Data Science, GPA: 3.71/4

Aug 2018 - Dec 2019 (Expected)

Courses: Exploratory Data Analysis & Visualization, Algorithms, Personalization, Probability and Statistics, Machine Learning, Statistical Inference & Modeling, Applied ML, Data Science & Public Policy

Visvesvaraya Technological University

Hubli, KA, India

B. V. Bhoomaraddi College of Engineering and Technology

Jul 2012 – Jun 2016

Bachelor of Engineering, Information Science, GPA: 9.42/10

Silver Medalist for securing 2nd place in the bachelor's program

Courses: Database Management System, Data Mining, Scripting Languages (Python), Information Retrieval

DATA SCIENCE PROJECTS

Does Climate Change and Natural Resource Storage Cause Conflict? *Columbia University*

May 2019

- Find correlation between factors such as Rainfall, Temperature, food prices and Bio-mass and Conflicts in Senegal
- Used Regression, SVM, Decision Trees and Time Series based models to predict Conflict. [Link](#)
- Built a reporting Dashboard that can be used by policymakers to take effective decisions to avoid natural resources shortages and conflicts.

Mini Projects in Data Science and Public Policy, *Columbia University*

2019

- "Russian Twitter trolls and 2016 U. S. Election" – analyzing FiveThirtyEight's 3 million tweets dataset [Link](#)
- "Evaluating Northpointe Inc's Compass system recidivism predictor" [Link](#)
- "Predicting Economic factors related to Poverty using Night Lights dataset" [Link](#)

How America Flies? Exploratory Data Analysis and Visualization, *Columbia University*

Dec 2018

- Performed Exploratory data analysis on Airline On-Time Performance data for US
- Conducted the EDA using R's tidyverse packages [Project Link](#)
- Designed a Visualization tool in JavaScript and D3 to find flight delays between top airports [Tool Link](#)

Beer Recommendation System, *Columbia University*

Dec 2018

- Built neighborhood based and model based collaborative filtering algorithms for beer recommendation
- Developed a Content based recommendation system using NLP on beer review-text
- Tackled recommendation concerns such as cold- start, variety, serendipity and accuracy
- Developed the project in python using surprise, NL toolkit and scikit-learn packages, [Link](#)

PROFESSIONAL EXPERIENCE

Data Science Researcher – *EdLab, Teacher's College, Columbia University*

Jun 2019 - Present

- Currently working on a Multi-platform recommendation system for various Teacher's college library resources for enhancing Self Directed Learning.

Teaching Assistant – Applied Data Science, *Columbia University*

Jan 2019 – May 2019

- Awarded "Excellence in Course Assistantship" for the course. [Link](#)
- Focuses on the practice of Data Science in the fields of Education, Health Care, Marketing, Advertising and Social Media
- Deals with skills like Data analysis, Machine learning, Featuring Engineering & Communicating results using R.

Micro Focus (spun-off from Hewlett Packard Enterprise)

Bangalore, IN

Software Engineer

Sept 2016 – Jun 2018

- Designed, tested and automated REST APIs for providing analytics insights into software security compliance and risk data for a datacenter automation Software.
- Worked with python programing on kubernetes technology
- Won 2nd place in a site wide hackathon conducted by Hewlett Packard Enterprise by designing a 'Docker and Kubernetes log monitoring Solution'

SKILLS

Computer Languages: Python (networkx, surprise, pandas, numpy, matplotlib, scikit-learn), R (ggplot2, dplyr, data.table), JavaScript (SVG, D3), SQL, C

HOBBIES

Debating, reading about history and current affairs, creating educational YouTube [Videos](#)