Rajat Aghi

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Education

MASTER OF INFORMATION MANAGEMENT, DATA ANALYTICS   EXP. MAY 2018
UNIVERSITY OF MARYLAND, COLLEGE PARK | GPA: 3.85/4.0

BACHELOR OF ENGINEERING, COMPUTER SCIENCE   JUNE 2015
GURU GOBIND SINGH INPRAPRASTHA UNIVERSITY, INDIA | GPA: 3.6/4.0

Work Experience

DATA ANALYST INTERN | USDA – AGRICULTURAL RESEARCH SERVICE   JUN '17 – AUG '17
· Compared nutrient compositions on food labels with lab values, for multiple food products using various hypothesis testing methods such as t-tests and ANOVA.
· Implemented regression modeling to calculate missing nutrient values for food items by correlating them to other foods with similar nutrient composition.

BUSINESS INTELLIGENCE ANALYST | ASPIRING MINDS ASSESSMENTS LTD.   JUL '15 – JUL '16
· Initiated and managed the sales pipeline of 15+ sales managers in Excel. Applied regression analysis to predict manager wise expected revenue.
· Analyzed hiring data and generated business intelligence dashboards based on client requirements. Helped reduce hiring costs by up to $12,000.
· Formulated a predictive model to identify the optimal time to air an advertisement for maximizing hits on the website. Leveraged Google Analytics to collect website data.

Academic Experience

NEURAL TRANSLITERATION: BULGARIAN TO ENGLISH
· Worked in a 3 member team to implement a seq2seq neural model to transliterate Bulgarian to English. Achieved training loss of 0.49 with a learning rate of 0.01. Used sklearn, nltk, numpy for the execution.

COMPARE NEWS SOURCES TO IDENTIFY INCIDENCES OF COLLUSION
· Parsed 1.2 million articles from 4 news sources via the Diffbot API. Stemmed & cleaned data for analysis.
· Applied n-gram analysis and fuzzy matching to compare articles. Created Tableau dashboards to summarize data and identify trends. Presented the analysis to reporters from Washington Post.

IDENTIFYING NEIGHBORHOOD BOUNDARIES USING MOBILITY DATA
· Scraped 5 million records from Car2go and Capital Bikeshare on 2 AWS machines via Pandas and BeautifulSoup in Python. Applied DBIndex and k-means clustering to devise neighborhoods boundaries for the D.C. region.
· Presented results at the pre-conference symposium for the International Cartographic Conference 2017.

Technical Skills

· **Programming Languages:** Python, R, SQL, HTML, JavaScript
· **Tools:** Tableau, AWS, Excel VBA, Google Analytics, DataWrangler
· **Databases:** MySQL, MongoDB