

Rajat Handa

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Education

George Mason University

GPA: - 3.8

Master of Science in Data Analytics Engineering
Fairfax, Virginia, U.S.A.

August 2016- May 2018

University of Pune

GPA: -3.5

Bachelor of Engineering in Computer Science
Pune, Maharashtra, India

August 2011- May 2015

Employment History

EECL, George Mason University

Graduate Research Assistant

September 2016 – August 2016

- Developed model for identifying user type on Twitter using CNNs(Keras) and classic text mining techniques.
- Identified brand logo using VGG16 for inferring Organizational or Individual User.
- Created a multi-feature NLP model using LDA and n-grams to identify topics discussed on Twitter and language prediction.
- Star hood prediction based on number of retweets, likes and follower's ratio using clustering and centralities.

HICL, George Mason University

Graduate Research Assistant

September 2016 – December 2016

- Developed an interactive web application (<https://youtu.be/5WKWWnY4C50>) for contrast network analysis of United Nation's Anti Gender Based Violence Campaigns (#HeForShe, #ItsonUs, #StateofWomen) using D3.js and HTML.
- Analyzed network centralities using Gephi for analyzing rate of information diffusion.
- Performed Sentiment Analysis for identifying the impact of different level campaigns.

Technical Skills

- Python, Spark, R, SQL, AWS, D3.js, HTML, Tableau, Fusion Tables, Kibana, Gephi

Academic Projects

- **Using Deep Learning for self-driving RC car.**
 - Object/Contour detection for steering control using Neural Nets.
 - Applied Transfer learning to train VGG16.
- **Ensino Secundário: Student Grades Prediction based on Alcohol Consumption.**
 - Model predicted grades using SVM with accuracy of 93%.
 - Improved accuracy to 97% using Principal Component Analysis.
- **Fair Game: Global Terrorist Attack prediction.**
 - Extracted data from 1990-2016 from University of Maryland's Library in SQL format.
 - Predicted terrorist attacks using Holt Winters and ARIMA.

Publications

- How Diverse Users and Activities Trigger Connective Action via Social Media: Lessons from the Twitter Hashtag Campaign #ILookLikeAnEngineer, HICSS 2018(Highly cited IEEE conference)
- Real-Time Inference of User Type in Social Media Activism Campaigns (In-Review AAAI)

Certifications

- Microsoft Technology Associate (Database Fundamentals)