

ANURAG ILLENDULA

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EDUCATION

2015-2020(Expected) Integrated Master of Science in [MATHEMATICS AND COMPUTING](#)
[Indian Institute Of Technology, Kharagpur](#), India
GPA: 8.61/10 [Transcripts](#)

RESEARCH INTERESTS

Emoji Understanding – Text Summarization Using Emoji, Emoji Similarity, Multimodal Emoji Prediction and Sense Disambiguation

Social Media – Sarcasm Detection on Twitter, Sentiment Analysis and Social Media Data Analysis

Knowledge Graphs – Information Retrieval using Knowledge Graphs and Evolving Knowledge extraction

Other – Natural Language Processing, Machine Learning, Deep Learning, and Data Mining

RELEVANT COURSEWORK

Design and Analysis of Algorithms, Computer Organization and Architecture, Discrete Structures, Switching and Finite Automata, Operation Research, Numerical methods of Differential equations, Natural Language Processing**, Machine Learning**, Information Retrieval**, Deep Learning**.

(**-Coursera Courses)

WORK EXPERIENCE

Research Intern at [KNO.E.SIS Center](#) (May 2017-Current)

ADVISOR : [DR. AMIT P. SHETH](#)

[Certificate](#)

- Working on research projects involving knowledge graphs, multimodal emoji prediction and harassment on social media. Explored natural language processing, semantic web, machine learning and deep learning techniques in solving the above problems.

Research Intern at [KNO.E.SIS Center](#)

(May-Jul 2017)

ADVISOR : [AMIT P. SHETH](#)

MENTOR : [SANJAYA WIJERATNE](#)

[Certificate](#)

- Worked on research projects involving text summarization using emoji, emoji prediction, emoji sense disambiguation, sarcasm detection using emoji, and building EmojiNet-RDF dataset. Explored natural language processing, semantic web, and machine learning techniques in solving the above problems.

Data Analyst at [MAROON.AI](#), Noida

(Jan-Feb 2017)

Head Quarters at Los Angeles, USA

[Certificate](#)

- Work conducted included extracting useful insights from the company's blogs and applying sentiment analysis tools to find the growth of the company. Created a graph database for efficient storage of sentiment analysis information.

Data Analyst at [AVIYOS PREDICTIVE INSIGHTS](#), Noida

(Dec-Dec 2016)

Head Quarters at Greater Atlanta, USA

[Certificate](#)

- Major duties included data scraping and data mining using natural language processing and machine learning algorithms. Created a robust algorithm for automatic summarization of the segments of text extracted from the data scraping programs.

PUBLICATIONS

[1] Learning Emoji Embeddings using Emoji Co-Occurrence Network Graph, **Anurag Illendula**, Manish Reddy Yeddula, At the 1st **Emoji Workshop for Emoji Understanding** co-located with ICWSM-2018. [[ArXiv](#)] [[Code](#)] [[Slides](#)]

[2] "What's ur type?" Contextualized Classification of User Types in Marijuana-related Communication using Compositional Multiview Embedding., Ugur K, Manas G, Usha L, **Anurag I**, Prasad TK, Raminta D, Sheth A, **Submitted to Web Intelligence 2018**. [[ArXiv](#)]

[3] Which Emoji Talks Best for My Picture?., **Anurag Illendula**, KV Manohar, Manish Reddy Yeddula., **Submitted to Web Intelligence 2018**.

[4] Emoji Ontology: A Framework to Publish Emoji as Structured Data., Sanjaya Wijeratne, **Anurag Illendula**, Lakshika Balasuriya, Amit Sheth, Derek Doran (In Preparation).

[5] Emoji Sense Disambiguation., Sanjaya Wijeratne, Lakshika Balasuriya, Amit Sheth, Derek Doran, **Anurag Illendula** (In Preparation).

PROFESSIONAL ACTIVITIES

External Reviewer : SemEval@NAACL (2018)

SKILLS AND EXPERTISE

PROGRAMMING LANGUAGES:	PYTHON, C, JAVA
PROGRAMMING TOOLS:	TENSORFLOW, KERAS, SCIKIT-LEARN
SCRIPTING AND MARK-UP LANGUAGES:	HTML, PHP, RESTful Web Services
OPERATING SYSTEMS:	WINDOWS, LINUX
SEMANTIC WEB TECHNOLOGIES:	RDF, SPARQL
DATABASES:	MONGODB, MYSQL
APPLICATION SERVERS:	APACHE TOMCAT, LAMP
DATA CRAWLING TOOLS:	SELENIUM, BEAUTIFUL SOUP, SCRAPY

ACADEMIC PROJECTS

API for Market Analysis (JAN. 2017 - JUL. 2017)
Course Project: **Soft Computing Tools in Engineering** Advisor: [Prof. Sudhir Kumar Barai](#)

- Trained an artificial neural network and a regression model for prediction of future stock price.
- Trained a deep learning model to predict the sentiment of investor comments (using [Stocktwits API](#)) and collected historical closing stock prices using [Yahoo Finance API](#).
- Used PCA and T-SNE algorithms for dimensionality reduction, K-Clustering and DBSCAN algorithms to cluster the industries which have similar growth.

Text Summarization Using Emoji (MAY. 2017 - JUL. 2017)
Project as part of Internship Advisor : [Amit P. Sheth](#)

- Developed a web application which summarizes a given sentence to a series of emoji's which convey same meaning.
- Used FastText trained word embedding's and knowledge from Emojinet.

REFERENCES

Dr. Amit P. Sheth
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Wright State University,
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