KUNAL VERMA

☐ (778)-917-6940 • ✓ vermak1996@outlook.com • in https://www.linkedin.com/in/vkunal1996 • https://www.github.com/vkunal1996 • thtps://www.vermakunal.com

EMPLOYMENT

Graduate Research Assistant

Vancouver, CA

Natural Language Processing Lab at The University of British Columbia

Jun'20 — Aug'20

- Collected 1 Billion Tweets of 1 Million users from 268 countries in 104 different language using Twitter Python API.
- Inspected the inter-state mobility of the users in the US between January'20 to May'20
- Investigated the Rank change of the top 40 most visited domains in 2020 comparing to 2019
- Predicted the undefined languages using langid, languagest, and fasttext models increasing the total number of detected languages from 67 to 100+ languages.
- Operated **AraNet** on 1 **Billion Arabic Tweets** to predicts sentiments, dialect, irony and age-gender of the users.

EDUCATION

University of British Columbia

Vancouver, CA

Master of Engineering in Electrical and Computer Engineering

Sep'19 — Jun'21

Guru Nanak Dev University

Jalandhar, IN

Bachelor of Technology in Computer Science and Engineering

Jun'15 — Jun'19

SKILLS

Technical Skills: Java, Python, JavaScript, C++, HTML, CSS, BootStrap, LATEX

Databases: MySQL, MongoDB, firebase

Framework and Tools: NodeJS, ReactJS, NumPy, Pandas, Flask, Spark(Python), Hibernate, Spring, Struts,

JSF, JSP, git, Heroku

Interests: Machine Learning, Natural Language Processing, Cloud Computing

PROJECTS

Mega-COV: A Billion-Scale Dataset of 100+ Languages for COVID-19

- Research Paper accepted at EACL2021 conference.
- Generated a Billion Scale dataset to help researchers for studying pehnonmena related to pandemics.
- Collected more than 1 Billion Tweets from 268 countries using Tweeter Python API.
- Researched and Examined the top 20 languages of the tweets.
- Coordinated to develop a BERT-Base Multilingual Case model for detecting tweets related to COVID-19 with a significant accuracy of 94%.

Client-Server Chat Application

- Developed a client-server chat application using JavaScript, NoSQL, and NodeJS.
- Examined different cross scripting attacks on the websites and sanitizing process to avoid such attacks.
- Coded the functionality of creating groups, fetching messages from the database server, and connecting clients to the server in order to send and receive messages.

Emotional Polarity Classifier

- Developed a web based application using flask and python to predict the sentiments of the feedback given by customers to the airline services.
- Deployed and Evaluates different classical and deep learning models for the prediction process.
- Deployed the whole web application and models on the heroku platform.

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