VIKRAM ALAGH

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https://github.com/sixthkrum

PROJECTS

TradingView Scripts

02/2021 - Ongoing

Phttps://www.tradingview.com/u/sharaaU7/#published-scripts

Scripts for a stock market charting service written in Pinescript.

- Group Project: team of 2.
- Problem: Unavailability of easy to use on screen notifications and alert scripts that the average trader can edit without hassle.
- Solution: Designed scripts that allow easy addition of tickers for on screen monitoring and dynamic notifications for monitoring on the go.
- The scripts have over 300 users.
- Responsible for designing the script structure and debugging them.

Sentiment Analysis on IMDB reviews dataset

04/2021 - 05/2021

₱ https://github.com/sixthkrum/IMDB-sentiment-analysis

TF-IDF and LSTM based deep learning to perform sentiment analysis.

- Problem: Need to make conversion of reviews into embeddings such that least important words are excluded.
- Solution: Only included words with a TF-IDF score in the middle 90% to be used for embeddings.
- Achieved 87% accuracy, comparable to accuracy of Keras's inbuilt embeddings using the same model architecture.

Foodecoder

11/2020 - 12/2020

Phttps://github.com/sixthkrum/foodecoder-website

Fluid full stack website that converts images of dishes into recipes

- Group Project: Team of 2.
- Problem: As someone who likes to cook it is helpful to get the recipe from a dish of which you only have a picture of.
- Solution: Built a fluid full-stack website that allows users to upload images of food and get back a recipe. Users can register to save images and results online.
- Technology Stack: Self hosted using Cloudflare. Uses Facebook's inverse-cooking to generate recipes. Uses deep learning to reject non food images. Server code is written in Flask with Jinja2.
- Responsible for server hosting, backend code excluding the deep learning model code and front end code.

Libxjs

1 03/2020 - 04/2020

Phttps://github.com/sixthkrum/xdo-joystick-lib

Linux shared library to map joy-pad input to key press sequences.

- Problem: It is helpful to set up keyboard shortcuts to execute programs but there is no utility to easily map them to a joy-pad for better access.
- Solution: Created a **shared library** that implements joy-pad mapping and listening for input and can be easily installed and linked against.
- Technology stack: Uses xdotool to simulate X11 keysyms and the Linux joy-stick api.

Smart Dustbin

10/2018 - 11/2018

Attps://github.com/sixthkrum/smart-dustbin

Dustbin that automatically reports how full it is.

- Problem: Municipalities have overflowing dumpsters that are unnacounted for. Need for remote monitoring to see problem areas.
- Solution: Made a prototype dustbin that auto reports how full it is via SMS mesages.
- Technology stack: IR sensors to check how full the dustbin is. sim900 module to send SMS messages. Arduino to control the components.

EDUCATION

BTech Computer Engineering

Thapar University, Patiala

2018 - Ongoing

- CGPA: 8.26
- · With Data Science as elective focus

Senior Education

Birla Vidya Niketan, Delhi

2016 - 2017

 92.2% Physics, Chemistry, Maths, English and Computer Science

Secondary Education

Birla Vidya Niketan, Delhi

2015 - 2016

• CGPA: 8.6

EXTRACURRICULAR



Organization and Leadership

Was an editor of the school magazine as the secretary of English. Helped get the magazine published on time.



Motivated Learner

Has over 26 personal projects on Github of various sizes, spanning multiple technologies.



Sports

Regular table tennis player and bicyclist.

SKILLS

Data Science		Linux		
Flask C++	Jinja2	uWSGI		NGINX
	Python	С	R	MATLAB
Javaso	ript P	inescri	pt	