AKHIL SANKER, RA1811026020035
Course :**B.Tech**, Computer Science and Engineering, 2022
Email :as5333@srmist.edu.in
Mobile :7907738363

ACADEMIC DETAILS

COURSE	INSTITUTE/COLLEGE	BOARD/UNIVERSITY	SCORE	YEAR
CLASS X	Army Public School	CBSE	9.2 CGPA	2015
CLASS XII in Computer Science	Army Public School	CBSE	74.8 %	2017
B.Tech in with specialization in Artificial Intelligence and Machine Learning	SRM Institute of Science and Technology - Ramapuram Campus		9.76 CGPA	2022

Subjects / Electives	OBJECT ORIENTED DESIGN AND PROGRAMMING - C++, ARTIFICIAL INTELLIGENCE, COMPUTER VISION, COMPUTER NETWORKS, PROGRAMMING FOR PROBLEM SOLVING - C, ADVANCED PROGRAMMING PRACTICE - Python, DATA STRUCTURES AND ALGORITHMS, STATISTICAL MACHINE LEARNING, DATABASE MANAGEMENT SYSTEMS
Technical Proficiency	Web Development, Computer Vision, SQL Programming, Deep Learning, Python3, Data Science, Algorithms, Tensorflow, Data Structures, Artificial Intelligence, Version Control, Data Analytics, C++ Language, Natural Language Processing

SUMMER INTERNSHIP / WORK EXPERIENCE

Machine Learning Developer, Altrekruit — **Dec 2020 - Feb 2021**

Full Stack Developer, Reallos Technologies — **Dec 2020 - Present**
- Developing Web Apps using ReactJs , Html-Css ,Javascript
- Documentation Works

Machine Learning Engineer / AI Developer, Reallos Technologies — **Oct 2020 - Dec 2020**
- Developing and Deploying Machine Learning Models.
- Development of API's using python.
- Documentation
- Testing and Debugging

Machine Learning Engineer, Omdena — **Aug 2020 - Present**
- Working on Preventing Online Child Abuse.
- Working for "Save The Children" Organization.
- Part of 67-member team from 27 different Countries.

Data Analyst, Positive Integers Limited — **Mar 2020 - Aug 2020**
- Performed Day to Day Activities of a Data Analyst. Predictive Analysis, Modelling Data to ensure meaningful insights Extraction.
- Complex Data Mining, Web Scraping, Visualization, Representation of data was performed with Excel Sheets for Business Analysis.

Technical Reviewer, Packt — **Jan 2020 - Mar 2020**
- Reviewed Courses based on Python, Data Analysis, Machine Learning, Node-Red.
- Prepared and reviewed questionnaires for students and course attendees.

PROJECTS

English Language Proficiency Model - Machine Learning — **Dec 2020 - Present**
A complex Machine Learning Pipeline Along with multiple Models to produce a score of "English Reading Skill Assessment".
Still Under Developement

Compound2Drug - Drug Discovery — **Nov 2020 - Jan 2021**
A network data is composed of nodes and edges. An example of such network data would be social network data where nodes are people and their interests and edges are interconnections between them.
Many useful applications such as customized suggestions for social media users have been developed through the use of Machine/Deep learning algorithms which accomplish this through node classification and link prediction protocols.

The bindingDB database was downloaded and a network was constructed using NetworkX wherein the nodes where compounds and proteins and edges where the interactions between them. Lower the IC50 value for a compound to inhibit a particular protein, the shorter the edges were that link them together.

Each compound is identified using the PubChem Compound ID (CID) and proteins are identified with the Protein Data Bank ID (PDB ID).To generate 2D embeddings of the network, the node2vec [29] python package was used.

PDF Signature Manipulator - Computer Science - Core Oct 2020 - Nov 2020

- Manipulating PDF's
- Reading and Extracting Data and adding Information using an automated process.

Abusive Text Detector - Machine Learning Sep 2020 - Oct 2020

Box Framework Automation - Analytics & Analysis Aug 2020 - Aug 2020

The Repository contains (Partial - Sample & Worked out) Codes of the project "Box Framework". Box Framwork is a Data Analytics based project (Automation Framework for a data-analytics pipeline) , that i worked on during my internship period at Positive Integers.
The project uses Data Analytics use-cases to form boxes (Sets / Containers) of products that can be sold into the open markets.
I've uploaded the code and methodologies along with the intense logic that has been used in the project .
The Required runtime is around 5 mins for a "Typically" Huge Dataset. The project takes into account by the usage of various py-libraries such as (numpy,pandas,matplotlib,math etc).
The entire code hasn't been uploaded & is not ready to "run in a click" , and is partially available for viewing purpose.

Tool for AI powered research in humanities - Machine Learning Jul 2020 - Aug 2020

A Machine Learning Text Summarizer, Specifically meant to Summarize large books / scriptures for educational purposes.

Outlet Finder - Computer Science - Core May 2020 - May 2020

The Program is given a few end coordinates of a specific place.
The algorithm calculates rest coordinates and covers the entire region around to create regional Clusters. The purpose is to use google API and find nearby stores (useful in cases of a pandemic) since it'll be pretty hard and dumb to go around and search for every single shop.
A program just to find out the nearby outlets and sort them out according to the needs

Covid19 Tool for Drug-Discovery - Machine Learning May 2020 - Jul 2020

An AI - Powered tool fro efficiently suggesting the best drugs for Covid-19 (Depending upon the protein target a drug is supposed to attch to)

CERTIFICATIONS

CERTIFICATION	CERTIFYING AUTHORITY	DESCRIPTION
TensorFlow: Advanced Techniques Specialization	Deep Learning AI	
Deep Learning Specialization	Deep Learning AI	
Machine Learning Specialist	Linkedin	

POSITION OF RESPONSIBILITY

Technical Executive - Project Head - LandMark Rmp Jun 2020 - Present

Campus Mantri - GeeksforGeeks May 2020 - May 2021

Microsoft Learn Student Ambassador - Microsoft Apr 2020 - Present

AI Researcher - Agrim Lab Feb 2020 - Present

Campus Buddy - Kreon Financial Services Dec 2019 - Jan 2020

AWARDS AND RECOGNITIONS

Microsoft Learn Student Ambassador | Microsoft Apr 2020
Prime Minister's Scholarship | Kendra Sainik Board Nov 2018
State 1st - International Informatics Olympiad | Silverzone Oct 2015

PUBLICATIONS

Target2DeNovoDrug: a novel programmatic tool for deep learning based de novo drug design for a target of interest
Journal name: biorxiv | Publication date: Dec 11, 2020

Target2DeNovoDrugPropMax : a novel programmatic tool incorporating deep learning and in silico methods for automated de novo drug design for any target of interest
Journal name: Biorxiv | Publication date: Dec 10, 2020

The past decade has seen a surge in the range of application data science, machine learning, deep learning, and AI methods to drug discovery.

The presented work involves an assemblage of a variety of AI methods for drug discovery along with the incorporation of in silico techniques to provide a holistic tool for automated drug discovery.

A program to automate the discovery of drugs for West Nile and Dengue virus **Journal name: tandfonline | Publication date: Nov 21, 2020**
Target2Drug : anovelprogrammatic workflow to automate In Silicodrug discovery **Journal name: chemrxiv | Publication date: Nov 19, 2020**
Compound2Drug – a Machine/deep Learning Tool for Predicting the Bioactivity of PubChem Compounds
Journal name: chemrxiv | Publication date: Oct 5, 2020