



AKHIL SANKER, RA1811026020035

Course : **B.Tech**, Computer Science and Engineering, 2022

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

SUMMER INTERNSHIP / WORK EXPERIENCE

Machine Learning Developer, Altrekruit • Developed Models related to NLP - Audio and Computer Vision. • Multi-Model Based Deployment, integrated with a microservice.	Dec 2020 - Feb 2021
Full Stack Developer, Reallos Technologies • Developing Web Apps using ReactJs , Html-Css ,Javascript • Documentation Works	Dec 2020 - Present
Machine Learning Engineer / AI Developer, Reallos Technologies • Developing and Deploying Machine Learning Models. • Development of API's using python. • Documentation • Testing and Debugging	Oct 2020 - Dec 2020
Machine Learning Engineer, Omdena • Working on Preventing Online Child Abuse. • Working for "Save The Children" Organization. • Part of 67-member team from 27 different Countries.	Aug 2020 - Present
Data Analyst, Positive Integers Limited • 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.	Mar 2020 - Aug 2020
Technical Reviewer, Packt • Reviewed Courses based on Python, Data Analysis, Machine Learning, Node-Red. • Prepared and reviewed questionnaires for students and course attendees.	Jan 2020 - Mar 2020

PROJECTS

English Language Proficiency Model - Machine Learning A complex Machine Learning Pipeline Along with multiple Models to produce a score of "English Reading Skill Assessment". Still Under Development	Dec 2020 - Present
Compound2Drug - Drug Discovery 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. Generates 2D embeddings of the network, the node2vec python package was used. The module learnt the embeddings of 65 graphs and they were used to perform a machine learning/deep learning based multi-class classification .	Nov 2020 - Jan 2021
PDF Signature Manipulator - Computer Science - Core - Manipulating PDF's - Reading and Extracting Data and adding Information using an automated process.	Oct 2020 - Nov 2020

Abusive Text Detector - Machine Learning	Sep 2020 - Oct 2020
As the name speaks, a Machine Learning model that can be integrated into browsers as add-ons that can detect abusive texts! (Still under Production phase)	
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 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 Powerful Text Summarizer Pipeline , with multiple Models and its comparison in-depth	
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: Taylor and Francis 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

VOLUNTEER EXPERIENCE	
National Service Scheme - Role: Volunteer Cause: Education	Jan 2019 - Feb 2020

EXTRA CURRICULAR ACTIVITIES	
Singing Badminton Dancing Football	