AKHIL SANKER, RA1811026020035
Course : B.Tech, Computer Science and Engineering, 2022
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SRM INSTITUTE OF SCIENCE & TECHNOLOGY
(Deemed to be University u/s 3 of UGC Act, 1956)

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		9.73 CGPA	2022

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

SUMMER INTERNSHIP / WORK EXPERIENCE

Machine Learning Developer, Altrekruit Dec 2020 - Feb 2021
• Developed Models related to NLP - Audio and Computer Vision.
• Multi-Model Based Deployment, integrated with a microservice.

Full Stack Developer, Reallos Technologies Dec 2020 - Mar 2021
• Developing Web Apps & Wire-Frames using ReactJs, Html-CSS, Javascript.
• Documentation Works
• Testing and Debugging
• Idea generation

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

Document Similarity API - Machine Learning Apr 2021 - May 2021
The Project Focuses on Identifying similarity between documents or texts using Deep Learning. I've used google's Word Vectors bin as the base for building my model. It Performs really well when it comes to functioning.
Undergoing Further Developments Right now.

Seed Certification - Machine Learning Apr 2021 - May 2021
The Project Focuses on Trying to Eliminate the Problem of Certifying Seeds, before distribution to farmers.

The Project has 3 Different Deep-Learning APIs that efficiently classifies factors like color, crack, general quality analysis of the given seed images and tells us if its worth distributing or not.
We've used Deep Learning Models with flask as the Backend, while ReactJS is out UI. We Won The Rotary Club Hackathon held on 2021 with this project.
Hosted at:- https://www.certify-seeds.ml/

Fire Detection API - Machine Learning   Mar 2021 - Apr 2021
The Complex MobileNet Architecture defines the entire model which is used to train a custom augmented dataset for "Fire & Smoke" Detection. The Augmented new Dataset was hand-made and annotated as per the need of the Object-Detection Model.
The Model Works great in detecting Fire be it within your houses, forests or even a match stick. You can test run the project on your webcam or any suitable devices.

English Language Proficiency Model - Machine Learning   Dec 2020 - Present
A Complex Machine Learning - Deep Learning Pipeline Along with multiple Models to produce a score of "English Reading Skill Assessment". The Project Slug Size is Pretty Huge, Hence not live, if backed up by proper funds & research the project would make a huge difference. The project uses Google's Speech to Text API, Complex Text Comparison models, and Document Similarity models.

Compound2Drug - Drug Discovery   Nov 2020 - Jan 2021
The Project Focuses on Producing the Appropriate Drug for a given Compound. The Drug should be the one that inhibits the particular compound. This is done on the basis of Drug-Discovery, Backed by proper research. A Database was extracted and then using NetworkX where the nodes were compounds and proteins, and edges were the interactions between them.
Generates 2D embeddings of the network, the node2vec python package was used. The module learned the embeddings of 65 graphs and they were used to perform a machine learning/deep learning-based multi-class classification.

PDF Signature Manipulator - Computer Science - Core   Oct 2020 - Nov 2020
The PDF Signature Manipulator was built mainly to put in user signatures into appropriate places. Given an approximate set of coordinates within the PDF. The method to determine the coordinates have been mentioned in the documentation.
Reading and Extracting Data and adding Information using an automated process. Further Planning to extend this project to include multiple other factors and better automation.

Abusive Text Detector - Machine Learning   Sep 2020 - Oct 2020
The Project Focuses on Detecting Abusive Language, Hate Speech, or any of this sort. It Targets Social Media Platforms where these kind of things are pretty common.
The Project is Deployed as an API and can be included into any external UI.

Box Framework Automation - Analytics & Analysis   Aug 2020 - Aug 2020
Box Framework 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 Automates the purpose of Data Analytics on certain Formatted Data.
It acts on finding the appropriate quantity of certain products that are to be deployed to specific places in specific quantity for the most effective sale.The Client that I worked for was Colgate Palmolive.

Tool for AI powered research in humanities - Machine Learning   Jul 2020 - Aug 2020
A Powerful Text Summarizer Pipeline. Using Deep Learning Models such as BERT & LSTM with Attention and a lot more. The Project Compares different Machine Learning Models for the purpose. Outputs for the same have been mentioned within the NoteBooks.
The Project Focuses on Summarizing Large Old Articles to use time efficiently and yet understand in-depth as of how and what these things meant.

Outlet Finder - Computer Science - Core   May 2020 - May 2020
The Outlet Finder is a Project that finds out the closest set of Shops that are available during a need. 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
A Drug-Discovery Based Project that harnesses the power of Supervised Machine Learning and is applied into a Database of Drugs (PubChem).
An AI-Powered tool for efficiently suggesting the best drugs for Covid-19 strands (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

Chapter Lead - GirlScript Chennai	Apr 2021 - Present
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

COMPETITIONS

Rotary Club Hackathon 2021   May, 2021

Rotathon, a Hackathon conducted by the rotary club. My team won the first prize comprised of 25,000 INR of cash and a few coupons.
https://rotathon.tech/

CONFERENCES AND WORKSHOPS

Neural Net Magic
Organized by: **Microsoft Learn Student Ambassador** | Date: **Apr 2020**
An online-Remote Event organized with the help of Microsoft Learn Student Ambassador Program. Where I gave a brief introduction to Deep Learning and how the math behind it all Works

PUBLICATIONS

Compound2DeNovoDrugPropMax	Journal name: chemrxiv | Publication date: Apr 22, 2021
Target2DeNovoDrug	Journal name: Taylor and Francis | Publication date: Dec 11, 2020
Target2DeNovoDrugPropMax	Journal name: Biorxiv | Publication date: Dec 10, 2020
A program to automate the discovery of drugs for West Nile and Dengue virus	Journal name: tandfonline | Publication date: Nov 21, 2020
Target2Drug	Journal name: chemrxiv | Publication date: Nov 19, 2020
Compound2Drug	Journal name: chemrxiv | Publication date: Oct 5, 2020

SCHOLARSHIPS

Prime Minister's Scholarship   Nov 2018

VOLUNTEER EXPERIENCE

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

EXTRA CURRICULAR ACTIVITIES

Singing
Badminton
Dancing
Football

PERSONAL DETAILS

Date of birth: 20 January 2000	Father's name: Biju M S
Permanent address: Akhil Bhavan Perukavu PO PRA a21, THIRUVANANTHAPURAM, THIRUVANANTHAPURAM, Kerala, PIN - 695573	Languages known: English, Tamil, Malayalam, German, Hindi
Permanent contact number: 7907738363	Nationality: India
Passport availability: false	