AKHIL SANKER

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PROFILE

Undergraduate Student, having a strong foundation in Machine Learning and Deep Learning concepts. Looking forward to excelling in the field of Data Science.

My area of focus is "Computer Vision & Deep Learning", I've Been Working on Papers and Projects about the same.
Being a part of the Machine Learning family, gained Experience in Working with all sorts of Data Pipelines.

Ready to work in Building Statistical models, Machine Learning Pipelines, Model Deployment, Data Analytics, Data Analysis.

Fields of interest: - Deep Learning, Classical Machine Learning, Databases, Chatbots, Computer-Vision, NLP, AI, Autonomous-Cars, DRL

PROFESSIONAL EXPERIENCE

May 2020-Present

Data Analyst Intern - *Positive Integers, Chennai 600018*

Performed Day to Day Activities of a Data Analyst in Data Preparation, Understanding Correlation, Building Automation Frameworks.

April 2020-Present

Microsoft Student Partner – Microsoft

Being Part of Microsoft Student Partner Community, the day to day responsibilities includes conducting Webinars, Hosting events on relevant topics. My area of work was mostly related to Computer vision and Deep learning

January 2020-May 2020

Technical Reviewer, *Packtt Publishing*

Being a Reviewer, Courses related to Python, Machine Learning, Node-red, Data Analysis etc. were to be reviewed and Proper Corrections, Modifications are to be added.

EDUCATION

May 2018 – 22: Bachelor of Technology in Computer Science with Specialization in AIML - *SRM Institute of Science and Technology, Chennai (GPA :- 9.7)*

June 2015 – 17: Higher Secondary in Computer Science - *Army Public School, Trivandrum*

KEY SKILLS AND CHARACTERISTICS

- Critical Thinking
- Handling Pressure
- Leadership
- Problem Solving
- Teamwork
- Adaptability
- Public Speaking
- Organization Skills
- Keras
- Tensorflow
- Linux, Windows
- PyTorch
- Nlp - Cv
- Machine Learning
- Deep Learning
- Artificial Intelligence
- Data Science
- Data Structures and Algorithms
- Statistics and Probability
- Data Modelling ,Analysis
- MS (Azure , office)
- Python, C, C++, MATLAB, JavaScript
- NoSQL, Relational Databases
- Version Control

LICENSES AND AFFILIATIONS

- Microsoft Student Partner – Beta (May 2020)
- Prime Minister's Scholarship Scheme (June 2019)
- International Informatics Olympiad – State 1st (Oct 2015)
- Deep Learning Specialization - DeepLearning.ai
- Machine Learning Specialist – LinkedIn Learning
- Accelerating Deep Learning with GPU - IBM
- Deploying Scalable Machines - LinkedIn Learning
- Web Content Writing - NASBA
- Python for Data Science - IBM
- Machine Learning with Python – IBM
- Big Data and ML Fundamentals GCP – Google

RELEVANT PUBLICATIONS AND PROJECTS (HTTPS://GITHUB.COM/REEKITHAK)

· AutoQSAR Algorithm for Anti-Corona Viral Drug Leads -

A Program for Automated Data Mining of PubChem to Screen a Billion Compounds and Generate by Machine Learning Based AutoQSAR Algorithm Anti-Corona Viral Drug Leads (Replicase Polyprotein 1ab Inhibitors) and In Silico Study of the Top Drug Lead Compounds

Our work is composed of a python program for automatic data mining of PubChem database to collect data associated with the coronavirus drug target replicase polyprotein 1ab (UniProt identifier: POC6X7) of data set involving active compounds, their activity value (IC50) and their chemical/molecular descriptors to run a machine learning-based AutoQSAR algorithm on the data set to generate anti-corona viral drug leads. The machine learning-based AutoQSAR algorithm involves feature selection, QSAR modeling, validation, and prediction.

The drug leads generated each time the program is run is reflective of the constantly growing PubChem database is an important dynamic feature of the program which facilitates fast and dynamic anti-corona viral drug lead generation reflective of the constantly growing PubChem database.

· Multi Classification Model – IBM Watson , Node-red

Built a Machine Learning Model to distinguish between different animal sounds . Using IBM-Watson , implemented a RANDOM-FOREST Classifier with various parameters and deployed the best Pipeline model.

The project used resources like NODE-RED to interconnect the Api's & services, used PYTHON-FLASK to Build a Temporary Web-interface.The model could distinguish between animal sounds as well as animal images.

Basically represented a Binary classifier that could distinguish Between Dogs & Cats (Both images and sounds)

· TuberCulosis Detection

The model Checks CT scans to find out if a patient is infected with tuberculosis or not.
Used CNN Models To classify the same.
The basic concept of segmentation has been used & Proper Accuracy Level has been acquired.