

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.

Have been doing Software-Projects Development as a Freelancer. Developing Applications That are dependent on underlying data.

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, Business Analysis.

PROFESSIONAL-WORK EXPERIENCE

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|---------------------------|---|
| May 2020-
Present | Data Analyst - <i>Positive Integers, Chennai 600018</i>
Performed Day to Day Activities of a Data Analyst in Data Preparation, Understanding Correlation, Building Automation Frameworks. |
| April 2020-
Present | Microsoft Student Partner – <i>Microsoft</i>
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, <i>Packt Publishing</i>
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. |
| January 2020-
Present | Software Development, <i>Freelancing</i>
Being a Freelancer , I develop frameworks and software components that are data driven and mostly depend upon ML-DL Algorithms. |

EDUCATION

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

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

KEY SKILLS AND CHARACTERISTICS

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

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 Developed to automate the Computational process of drug discovery. The purpose is to assist and accelerate the process of drug discovery.

The program was designed to Scrape through the web, from a specific resource and Identify drug targets of a related condition and by applying ML-Algorithms to identify the best possible drugs.

The program purely uses Python Automation. Frameworks like Pandas-NumPy, Scikit-Learn, Selenium etc. were used.

The Research Preprint for the same is available in the below link:

<https://bit.ly/drugleadscorona>

<https://github.com/reekithak/Covid19-Tool-for-Drug-Discovery>

NLP-Based Text Mining Algorithm for Antient Human Understanding

The Program uses the power of LSTMs and Transformer models in bringing AI-powered machine into Humanity-Research area.

Developed for better management and understanding written manuscripts in short.

The script Reads through Huge Manuscripts picking out the most relevant roles and summaries and provides the user with the most appropriate “value-based” information that can be extracted.

The program was developed under the guidance of a research scholar

The Research Preprint for the same is available in the below link:

<https://osf.io/preprints/socarxiv/p4q9c/https://github.com/reekithak/Tool-for-AI-powered-research-in-humanities>

Data- Analytics Automation Framework

The Software / Framework was developed as a part of Data – Analysis Pipeline to perform and identify the needs of people and hence produce the best product output.

The project data being private, there hasn't been much disclosure.

The code is open-sourced and is available in GitHub.

The program is Data-Driven, Imports, Analyses, Cleans, picks out just the most relevant information required for the process. It Requires more than normal computation and about 10-15 minutes to complete the execution process.

The produced result is nothing less than “manually done data analysis” and is driven based on certain rule-based assumptions and heuristics.

<https://github.com/reekithak/Box-Framework-Automation>

Graph analysis for Drug Discovery in forming clusters of related drugs for efficient production

The Project is still under development and is focused on helping and accelerating drug-discovery.

The possibilities of graph-neural networks and its algorithms help in contributing to the project. Frameworks like networkx is used to manipulate the data and create models of the clustered graphs and further algorithms are applied to find appropriate results.

<https://github.com/reekithak/SNA>

**NOTE :- ALL PROJECTS AND PRACTISES ARE AVAILABLE AT MY GITHUB :-
HTTPS://GITHUB.COM/REEKITHAK**
