Akhil Songa

415 N 40th Street • Philadelphia, PA 19104 • as5735@drexel.edu • +1 (267)-467-6401 • LinkedIn:
https://www.linkedin.com/in/akhil-songa-agnos/

EXPERIENCE

GITAM UNIVERSITY | Visakhapatnam, India
Research Assistant | Jan 2021 – Aug 2021

- Worked under Dr. Bhavani Madireddy on Data Visualization and published a Review article, "**A Comparative Study of Data Visualization Techniques Using Covid-19 Data.**" During the study, analyzed the feasibility and use-cases of various Data Visualization methods with respect to diverse categories of data.

TECHNOCOLABS SOFTWARE | Remote
Data Science Intern | Oct 2021 – Nov 2021

- We worked on **Predicting a Startup's Acquisition Status** utilized CrunchBase datasets on companies, their acquisitions, investments, and investment rounds. Cleaned unnecessary data points from the original dataset using OneHot encoding and by removing null values, duplicates, and outliers, making it easier to train a machine learning model. Achieving a 93% accuracy after HyperParameter Tuning via GridSearchCV.

INEURON | Remote
Data Science Intern | Feb 2021 – Mar 2022

- Using the Indian-vehicle-license-plates Kaggle dataset, we worked on **Vehicle number plate recognition** with a custom object detection model using Yolo v4 and Tesseract OCR. It was deployed in the parking lot with the assistance of the IOT team.

PROJECTS

SMS MESSAGES SPAM CLASSIFIER USING NLP
| August 2022 – September 2022

- By using various machine learning techniques like nltk, count vectorization and Multinomial Naïve Bias classifier, a given message will be classified as spam or not and achieved roc auc score of 0.98.

FACE RECOGNITION AND ATTENDANCE
| April 2021 – May 2021

- Face recognition algorithm includes finding faces by drawing boundaries, normalizing them with a trained model, feature extraction, and face recognition n using computer vision. OpenCV, dlib and face recognition libraries are used.

CHAT ROOMS USING SOCKETS IN JAVA
| Dec 2019 – Feb 2020

- I developed a chat room on a local host using Multicast Socket in Java. Using an IP address and a port number, several users can join a single server and communicate with each other, and all chat will be recorded and stored in a database.

HOTEL MANAGEMENT PROJECT IN JAVA:
| Dec 2019 – Feb 2020

- The hotel management system is used to manage activities such as presenting the menu, accepting orders, displaying the estimated arrival time, providing the bill to the customer, reporting all orders to the chefs, granting the administrator access to the logs and stats, and reporting revenue on the owner page. This is a menu-driven application that runs until the user closes it.

EDUCATION

DREXEL UNIVERSITY | Philadelphia, PA
Master's in data science, Dean's Fellowship | Sept 2022 – 2024
Coursework: Data Acquisition and Pre-Processing, Data Structures and Algorithms, Introduction to Data Analytics

GITAM UNIVERSITY | Visakhapatnam, India. 2018 – 2022
Bachelor's in computer science engineering, GPA: 3.4 (8.17/10)
Coursework: Machine Learning, Probability and Statistics, Data Mining and Data Warehousing, Artificial Intelligence

ACHIEVEMENTS & PUBLICATIONS

- "A Comparative Study of Various Data Visualization Techniques using COVID-19 Data" (August 2021 Issue - IRJET).
- "The Societal and Transformational Impacts of Data Science" (September 2021 Issue - IJERT).
- "Vehicle Number Plate Recognition System Using TESSERACT-OCR" (April 2022 Issue - IJRASET).
- "Credit Card Fraud Detection using Various Machine Learning Algorithms" (September 2022 Issue - IJRASET).
- My Research Interest Score is higher than 31% of all ResearchGate members (ResearchGate Stats).
- My Score is higher than 84% of all ResearchGate members who first published in 2021(ResearchGate Stats) & Total reads:1,318.

CERTIFICATIONS

- Participated in Mobile Hacking & Cyber Forensics Workshop, conducted by IEEE student branch.
- Google Android Developer Fundamentals Workshop, from Government of Andhra Pradesh State Skill Development Corporation.
- NLP - Natural Language Processing with Python, Udemy
- Complete Tensorflow 2 and Keras Deep Learning Bootcamp, Udemy
- Programming for Everybody python, from University of Michigan, Coursera (Grade: 98.16%).
- Machine Learning Algorithms: Supervised Learning Tip To Tail, Alberta Machine Intelligence Institute, Coursera (Grade: 96.42%). Software Development Processes and Methodologies, University of Minnesota, Coursera (Grade: 96.39%).
- Introduction To Web Development, University of California Davis, Coursera (Grade: 97.95%).

SKILLS

Programming Languages: Python, SQL, Java, C, C++.
Tools/Frameworks: Sci-kit, Matplotlib, Git, Tableau, Seaborn, HTML, CSS, Microsoft Excel.
Databases: MySQL, Oracle SQL, MongoDB.
Machine Learning Algorithms: Regression models, Spacy, Classification models, YOLO, OpenCV, NLP, keras, CNN, RNN-LSTM, Tensorflow, Pytorch, Sentiment analysis, PowerBI, Plotly, Django.
Github: https://github.com/akhilsonga