

# Akash Borigi

+1-3462817775 | ✉ akashborigi555@gmail.com |  akash-borigi |  akashborigi |  akashborigi

## EDUCATION

### Master of Science in Engineering Data Science

Dec 2024

University of Houston, Houston, TX, USA

### Bachelor of Technology in Electronics and Computers Engineering

June 2022

Koneru Lakshmaiah Education Foundation, Vijayawada, AP, India

CGPA: 3.80

## TECHNICAL SKILLS

**Programming Languages:** Python, R, SQL, Java

**Database Technologies:** MySQL, MongoDB, PostgreSQL

**Data Analysis and Visualization:** Pandas, NumPy, Matplotlib, Scikit-Learn, TensorFlow, PyTorch, NLTK, Beautiful Soup

**Statistical Techniques:** Regression, Classification, Clustering, Monte Carlo, Decision Tree, Random Forest

**ML Environments:** Jupyter Notebook, Google Colab, Orange Data Mining, R-Studio, Advanced Excel

**Certifications:** Cloud Computing (Huawei), Artificial Intelligence (Huawei), PostgreSQL (Udemy)

**Coursework:** Text Mining, Machine Learning, Data Science, Probability and Statistics, Data Mining, Data Analytics

**Languages:** English, Telugu, Hindi, Spanish

## PROFESSIONAL EXPERIENCE

[Antunes Lab](#), University of Houston, Houston, USA

Jun 2023 - Present

### Jr. Data Scientist (Research Assistant) |

- Secured a seed grant from the Drug Discovery Institute, for benchmarking of peptide-based ligands.
- Treated overlap between 155 ligand-receptor data as a target from multiple docking conformations with 2038 structural peptide ligand data samples manipulated by Monte Carlo algorithm, in the proliferation of malignant cells.
- Orchestrated a key-search parser, data-merger, and mmCIF extractor algorithms to extract 3976 data samples for baseline conditional satisfactory to label pristine and efficient scoring strategies, by training binding affinities where it will enable in various future biomedical and cancer applications.

University of Houston, Houston, USA

Apr 2023 - May 2023

### AI Informative Engineer (Graduate Assistant) |

- Utilized proactive initiative for deploying responsive AI web program, applied Python and Microsoft Excel.
- Extracted efficient data from 86 journals and 180 conferences, consolidating all pertinent information into a centralized framework document.
- Facilitated streamlined access for 3 researchers, providing concise guidance for accessing publication information.

Trizag Technologies, Visakhapatnam, India

Jul 2021 - Dec 2021

### Artificial Intelligence Analyst |

- Spearheaded deployment of raw honeybee data worked by SQL wields in Amazon web marketing resources ensuring streamlined information, with innovative AI web scraping and showcasing adaptability in cutting-edge technologies.
- Collaborated seamlessly with a cross-functional team to enhance a diverse marketing agenda of 25% profits over 10 and above clients, leveraging the esteemed support of LinkedIn and Facebook media partnerships.

## PROJECTS and TRAINING

### Topic Modeling

Aug 2023 - Dec 2023

- Employed advanced text mining on newspaper corpus, and skillfully crafted a cluster model with a journalistic focus.
- Applied leadership skills to refine 50k words of data analysis, ensuring excellence in team and project management.

### Information Visualization over Countries

Aug 2023 - Dec 2023

- Led on Tableau-dependent investigative analysis, revealing a positive correlation between economy and literacy.
- Provided interactive visualizations to engage diverse audiences and inspire action for future research, identified transition from agriculture to service-based economies, and complex influences of health metrics and net migration.

### Summer Cohort, Prediction of Rate of Penetration

May 2023 - June 2023

- Examined data science skillset upon energy transition co-powered and hosted by National Science Foundation.
- Applied and emphasized fundamentals of time-series, spatial-temporal methods, geo-statistical applications, neural networks, and deep learning models to 7312 entries of data concerning policymaking decision using Python, and R.

## PUBLICATIONS and SCHOLARSHIPS

### Machine Learning Algorithms on Public Mental health

Mar 2022

International Journal of Special Education (ISSUES PAGE) - Volume: 37, No: 3, ISSN: 0827-3383

MERIT ENGINEERING DEAN'S MASTER SCHOLARSHIP (University of Houston)