Akash Borigi

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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 and Cloud Technologies: MySQL, MongoDB, PostgreSQL, AWS, Docker
Statistical Techniques: Regression, Classification, Clustering, Monte Carlo, Decision Tree, Random Forest
Data Analysis and Visualization: Pandas, NumPy, Matplotlib, Plotly, Scikit-Learn, TensorFlow, Keras, NLTK, Beautiful Soup
ML Environments: Jupyter Notebook, Google Colab, Orange Data Mining, R-Studio, Advanced Excel, Tableau, Power BI
Certifications: Cloud Computing (Huawei), Associate Artificial Intelligence (Huawei), PostgreSQL (Udemy)
Coursework: Text Mining, Machine Learning, Data Science, Probability and Statistics, Data Mining, Data Analytics

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.
- Deployed AI bots for data extraction, wrangling large-scale datasets, navigating complex structures from 50048 samples to 3976 and continuously refining duty for high-quality data, facilitating datasets for peptide screening.
- Orchestrated 279 structured human samples using Monte Carlo Simulation and ML models using Random Forest and Keras, enhancing ability in peptide scoring. Visualized scoring function results will impress technical audience comprehension, efficiently handling virtual screening and AI-based consensus in future biomedical 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 using new technology for edge research.
- 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 for multiple tasks 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 partners.

PROJECTS and TRAINING

Summer Cohort, Predicting Rate of Penetration   **May 2023 - May 2024**
Data Science For Energy Transition, University of Houston (Apprenticeship)
- Examined data science skillset upon energy transition co-powered and hosted by the National Science Foundation.
- Accomplished optimizing spatial-temporal methods and geo-statistical applications, achieving a 97% accuracy within cross-validation mechanisms, by modeling 7312 entries using Linear Regression, decision tree, and Random Forest.

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, an identified transition from agriculture to service-based economies, and complex influences of health metrics and net migration.

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)