KASHIF BARI

https://kashbari.github.io

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EXECUTIVE SUMMARY

PhD trained Research Scientist with modeling experience in Bayesian, Deep Learning, Natural Language Processing, and traditional Machine Learning algorithms as well as a mathematical research background in the Tensor Geometry, Geometric Complexity Theory, and Graph Theory.

SKILLS

Python, C++, Git, Hg, R, MATLAB, Linux (Ubuntu, CentOS), Amazon Web Services, Google Cloud Services, Azure, Apache Airflow, PySpark, SQL, HTML, Docker

WORK EXPERIENCE

 Analyst at ORCA Division, Systems Planning and Analysis, Inc Classified work within ORCA (Operations Research and Cyber Analysis) division. (TS Cleara Worked in the following domains: Bayesian tracking algorithms, Monte Carlo Simulations, Data Engineering. Collaborated with Research Scientists, Analysts, and Software Engineer 	Signal Processing, Deep Learning,
• Analyst at ORCA Division, Metron, Inc ORCA Division previously part of Metron; same domains as above	January 2022 - September 2022
• Data Science Consultant at Bella Vista Health Center Constructed data pipelines to automate statistical analyses and data visualization.	June 2021 - November 2021
 Mathematics Graduate Assistant at Texas A&M University Used Python to experimentally investigate tensor ranks and border ranks in conjunction with and algebraic geometry to theoretically confirm conjectures in Complexity Theory. Use Computing cluster (SLURM manager) to run Python code. Leading recitations in Engineering Calculus I and II as well as teaching Python and MATLA context of Calculus; Graded for Introduction to Proofs, Applied Algebra for Math Major (Qualifying Exam courses) 	ed Texas A&M High Performance AB to Engineering students in the
PROJECTS	
 Erdös Institute Qarik Corporate Project: Learning from World Bank Loan Doct Looking for insights into economic and development trends over decades from unstructured dat Natural Language Processing (NLTK), Optical Character Recognition (Tesseract), Data En Topic Analysis Clustering (Doc2Vec, LDA) Erdös Institute Mentor Program Mentor groups of PhD students in Data Science Bootcamp. Topics include Computer Visit Language Processing, and Credit Risk Machine Learning models. 	taset. Relevant domain knowledge: ngineering, Visualisation (Seaborn), Spring 2022, Fall 2022
EDUCATION	

Texas A&M University PhD in Mathematics, Dissertation: On the Structure Tensor of \mathfrak{sl}_n	August 2015 - May 2021
San Diego State University M.A. in Mathematics, Thesis: A Commutative Algebraic Approach to Hamiltonians and Graphs	August 2012 - June 2015
University of California, San Diego B.S. in Mathematics, Minor in Music	August 2008 - June 2012

PUBLICATIONS

K. Bari, On the Structure Tensor of sl_n, Linear Algebra and Its Applications, https://doi.org/10.1016/j.laa.2022.08.012 K. Bari and M. O'Sullivan, The Hamiltonian problem and t-traceable graphs, Involve, DOI: 10.2140/involve.2017.10-5

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