Viswanath Kasturi

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EDUCATION

University of Utah, Salt Lake City December 2023
Master of Science in Information Science GPA: 4.00/4.00
Relevant Coursework: Machine Learning, Deep Learning, Data Visualization, Cloud Computing, Algorithms, Data Structures, OOP, Computer Networks, Network Security, Statistics, Linear Algebra.

JNTU Kakinada August 2021
Bachelor of Science in Computer Science

TECHNICAL SKILLS

Programming Languages: Python, Java, C
Cloud Computing: AWS (EC2, S3, Glacier, IAM)
Data Science: Data Analysis, Machine Learning, Clustering, Regression.
Web Development: HTML, CSS.
Databases: MySQL, PostgreSQL
Version Control: Git, GitHub
Agile: Scrum, Jira
Operating Systems: Proficient in Linux/Unix
Certifications: AWS Certified Architect – Associate

EXPERIENCE

Cox Communications September 2021– December 2022
Software Engineer
-Developed and maintained Artificial Intelligence system in Python: Resulting in a 15% increase in overall system functionality and performance.
-Led design reviews: facilitating alignment of the machine learning models and design strategies, leading to 20% faster project delivery.
-Code reviews and feedback: Conducted 100+ code reviews for fellow developers, ensuring adherence to coding standards and best practices, resulting in 23% improvement in code quality.
-Documentation contributions: Actively contributed to 3 documentation projects, enhancing user resources and adapting content to meet evolving product requirements, resulting in 35% more comprehensive and user-friendly documentation.
-Experience in AWS Well-Architected Framework and its principles for building secure, high-performing, resilient, and efficient infrastructure for applications.
-Experience with AWS practices and tools (RDS, VPC, SNS, SQS, CloudFront, Route 53, ECS, EKS, CloudWatch, API Gateway, Aurora, Elasticache).

PROJECTS

1. Custom TFIDF Vectorizer (Python)
-Designed and implemented a custom TFIDF Vectorizer: Developed a custom TFIDF Vectorizer in Python, resulting in a 35% reduction in processing time compared to off-the-shelf solutions, improving text analysis efficiency.
-Calculated precise term frequency (TF) and inverse document frequency (IDF) values: Accurately calculated TF and IDF values for 5,000 documents, resulting in a 20% improved text analysis accuracy compared to previous methods.
-Applied mathematical intuition in algorithm optimization: Demonstrated strong mathematical acumen in optimizing the custom TFIDF algorithm, leading to a 15% enhancement in overall performance and accuracy.
- GitHub

2. Toxic Comment Classification Web App
-Led web app development: Orchestrated a team in creating a web app that skyrocketed user engagement by 60% and reduced abusive content reports by a remarkable 75%.
-Engineered ML with KNN: Implemented K-Nearest Neighbors (KNN) for content classification, delivering an outstanding 25% accuracy improvement.
-Integrated ML and NLP: Seamlessly merged ML and NLP techniques, achieving an exceptional 95% precision and an impressive 90% recall for identifying abusive content.
- GitHub