Jashwanth Kadem

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EDUCATION

University of Maryland Baltimore County, Baltimore, Maryland Aug'22 - May'24
Master's in Data Science GPA: 3.71
Relevant coursework: Data Analysis and Machine Learning, Data Analytics for Statistical Learning, Data Management, Platforms for Big Data Processing, Data Ethics

Jawaharlal Nehru Technological University, Hyderabad, India Aug'18 - May'22
Bachelor's in Computer Science GPA: 3.21

SKILLS

Functional : Data Visualization, Storytelling, Data wrangling and cleaning, Statistical Analysis and Hypothesis Testing, Modeling and Evaluation, Data Analytics, Statistics and Probability, Communication, Collaboration
Technical : Python, MySQL, Tableau, Microsoft Excel, Power BI, Pandas, NumPy, Matplotlib, Seaborn, Scikit-Learn, Keras, Pytorch, Tensorflow, Apache Hadoop, Apache Spark, Git, AzureML

PROFESSIONAL EXPERIENCE

Constella Intelligence - Hyderabad, India Jan'22 - Jul'22
DevOps Engineer
• Led the design and implementation of scalable systems by collaborating closely with cross-functional teams, utilizing Docker and Kubernetes to achieve a 20% improvement in resource utilization and saving 15 hours per week in manual intervention.
• Designed and implemented CI/CD pipelines, automating 90% of the deployment process using industry-standard tools such as Jenkins and GitLab CI/CD, resulting in a 40-minute reduction in release time per deployment.
• Provided crucial support to the Data Science team by assisting in the implementation of predictive analytics models and intuitive dashboards using Python and Tableau, enhancing operational efficiency and enabling data-driven decision-making.

ACADEMIC PROJECT EXPERIENCE

DeepFake Audio Detection • DeepFake Audio Detection Feb'24 - Apr'24
• Designed and deployed a high-performance deep learning model for voice classification, achieving an impressive accuracy of 88% and F1 score of 84% on a dataset consisting of 32000 audio samples.
• Conducted comprehensive exploratory data analysis (EDA) on audio data, visualizing waveform, spectrogram, Mel spectrogram, and other features to uncover insights into real and fake audio distinctions.
• Applied advanced hyperparameter tuning techniques, resulting in a significant 8% increase in F1 score, and implemented ensemble learning strategies driven by algorithms, contributing to an additional 4% improvement in the model's overall robustness.

Water Quality Analysis in Baltimore City • Baltimore Water Quality Analysis Sep'23 - Oct'23
• Led a comprehensive analysis of surface water quality monitoring data for Baltimore City, managing a dataset of 433,370 records.
• Explored key insights, including yearly trends, laboratory observations, and station-specific analyses using SQL. Identified the top 10 parameters measured and, notably, found that 3% of the data exhibited water quality issues in Baltimore.
• Played a crucial role in report analysis and presented findings through visually compelling charts and graphs using Tableau.

Indian Premier League Predictions • IPL Predictions Apr'23 - May'23
• Conducted thorough Exploratory Data Analysis (EDA) to uncover actionable insights into player performance, match outcomes, strategic trends within the IPL cricket league.
• Employed a statistical framework for developing a predictive model for IPL predictions, utilizing Logistic Regression and integrating XGBoost to capture nonlinear relationships.
• Leveraged GridSearchCV for meticulous parameter optimization, resulting in an 85% accuracy rate and affirming the model's effectiveness in predicting IPL outcomes.

ACHIEVEMENTS

• Certified TensorFlow Developer by DeepLearning.AI, demonstrating proficiency in deep learning and TensorFlow development, issued in May 2020.
• Authored a groundbreaking technical paper introducing Spark Viz, a native data visualization component for Apache Spark, showcasing innovative solutions to enhance data analytics workflows within the framework. (Nov'23) (spark Viz)