

ANISH JAMEDAR

Arlington, TX

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Education

The University of Texas at Arlington

Master's in Computer Science — GPA: 4.0

Aug 2023 - May 2025

Arlington, TX

Vellore Institute Of Technology

Bachelor of Technology in computer science

July 2019 - July 2023

Vellore, India

Experience

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July 2022 – August 2022

MACHINE LEARNING INTERN

- Built an image caption generator using CNN-RNN architecture, achieving a 15% improvement in caption accuracy. Leveraged TensorFlow and Keras for model training and deployment.
- Optimized performance through data augmentation and hyperparameter tuning, reducing error rate by 10%.
- Implemented Beam Search for caption generation, improving the relevance and coherence of generated descriptions.

Projects

CONFERENCE MANAGEMENT SYSTEM [LINK]

- Developed a full-stack conference management system using Node.js, Express.js, and MySQL with secure authentication via JWT and bcrypt.js
- Integrated PayPal Checkout for seamless ticketing and Socket.io for real-time chat and live conference interactions
- Optimized database performance with Sequelize ORM and implemented Multer for secure file uploads in research paper submissions
- Implemented role-based access control for admins, speakers, and users, ensuring restricted access to conference features via middleware authentication in Express.js.

REDDIT API ANALYTICS DASHBOARD

- Developed a real-time analytics dashboard to track top posts and user engagement on subreddits using Reddit API, Kafka, Airflow, and Flink.
- Leveraged Kafka to stream real-time data from Reddit, processed via Flink for aggregation, filtering, and analysis of top posts by upvotes and comments.
- Automated ETL pipeline using Airflow, integrating with Docker for containerization, ensuring seamless deployment and scalability.
- Stored processed data in a relational database for historical analysis and efficient querying of subreddit trends.

SHIP DETECTION IN OPTICAL REMOTE SENSING PORT IMAGES USING CNN

- Developed a high-precision CNN model achieving 92% accuracy in detecting ships from optical remote sensing imagery.
- Enhanced model generalization by 12% through data augmentation techniques such as rotation, flipping, and scaling.).
- Reduced false positives by 15% using advanced preprocessing, background noise filtering, and adaptive thresholding.
- Optimized model robustness with dropout regularization and batch normalization, mitigating overfitting and ensuring consistent performance

A SYSTEMATIC APPROACH TO HUMAN MOTION RECOGNITION USING DEEP LEARNING

- Developed GRU-based deep learning model for human motion classification, achieving 90% accuracy on the CMU Mocap dataset.
- Preprocessed motion capture data by normalizing and segmenting time-series sequences to enhance model performance.
- Utilised GRU layers for temporal pattern recognition reducing vanishing gradient issues compared to traditional RNNs.
- Applied dropout and batch normalization to mitigate overfitting and improve generalization by 8%.

Technical Skills

Languages: Java, Python, CPP, C

Data Engineering: ETL, Apache Spark, Hadoop, Kafka, Airflow, Amazon RDS, Aurora, DynamoDB, SQL

Other Technologies: AWS, Docker, Git, JavaScript, GitHub Actions, AWS CloudFormation