Keerthi Samhitha Kadaveru

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EDUCATION

Gurunank Institute of Technology [GNIT]   **2017- 2021**
Bachelor of Technology - Electronics and Communication Engineering   **CGPA: 7.0/9.0**

WORK EXPERIENCE

Capgemini
Analyst
October 2021 – Present
- Led a team in developing a predictive analytics model for a major healthcare client that leveraged LSTM networks and neural network attention mechanisms to integrate electronic health records, sensor data, and socioeconomic factors, resulting in a 15% increase in patient prognosis accuracy.
- Developed and optimized SQL queries for ETL tasks on large datasets, improving query performance by 30% through design and optimization.
- Implemented data cleaning and preprocessing techniques on large-scale datasets and achieved a 45% reduction in data errors through the implementation for data cleaning and preprocessing.
- Conducted customer segmentation analysis in Tableau for clustering and cohort analysis. Created dynamic dashboards in Power BI and Tableau to visualize key metrics and customer segmentation insights.

Microsoft
Summer Internship
May 2019 – July 2019
- Acquired and preprocessed a comprehensive dataset of hand sign images, including diverse ASL gestures, applying image normalization and augmentation techniques to enhance model generalization.
- Engineered a custom convolutional neural network (CNN) architecture using TensorFlow, leveraging convolutional, pooling, and fully connected layers to capture intricate spatial features from hand sign images.
- Trained the CNN model with optimized hyperparameters and batch processing, employing techniques such as dropout regularization to prevent overfitting and achieve high accuracy during classification tasks on unseen test data.

ACADEMIC PROJECTS

American Sign Language translation using a chrome extension for Google Meet
- Captured video frames from Google Meet are sent to the MediaPipe framework to predict hand gestures.
- Implemented JavaScript solution API to integrate functions of MediaPipe into Chrome extension.
- Adopted MongoDB to store hand sign coordinates in the form of arrays and send it to the Node JS server and then the chrome extension. Designed an ML model with an accuracy more than 90%. Launched application on Google Cloud
- Enhanced system by incorporating text-to-speech and leveraging Lang-8 with a deep learning model for grammatical accuracy.

Analyzing Amazon Reviews using Sentiment Analysis| Python | Scikit Learn | Ensemble Learning
- Developed an ensemble model to anticipate the sentiment of a product review(text) utilizing multinomial Naive Bayes, SVM(support vector machine), KNN (K Nearest Neighbor), and RNN (Recurrent Neural Networks) classifiers.
- Used selective data sampling and data over-sampling to handle imbalanced data.

Ecommerce Sales Dashboard Analysis
- Utilized data analysis techniques to identify 'Office Supplies' as the top-selling category within the e-commerce dataset, with specific products such as 'Staples', 'Staple envelope', and 'Easy-staple paper' demonstrating high sales and profitability.
- Leveraged data aggregation and visualization techniques to present clear geographic data visualization to pinpoint the West region as the top performer with sales exceeding $7.42 million.

AWARDS AND ACHIEVEMENTS
- *Recognized for successfully delivering project with zero critical defects within project timelines.*
- *Certified ISO 27001 Lead Implementer*
- *Team Lead-Adobe-sponsored IoT club*
- *Event Organizer and Coordinator- E-Yentra (2019-2021)*

SKILLS AND INTERESTS
Technical Skills: *Power BI, Tableau, Excel (including PivotTables, Power Query), MySQL, MS SQL Server, Oracle, Python, Pandas, Numpy, Scikit-Learn, Statsmodel, Matplotlib, Seaborn, Keras, TensorFlow, C, Java, JavaScript, HTML/CSS, Certified ISO 27001 Lead Implementer.*

Other Skills: *Agile Methodology, SDLC methodologies, Proficient Orator and Effective Communicator, Proven Track Record of Inspirational Leadership and Strategic Management*