Mayur Kini

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SUMMARY

Energetic data professional skilled in data analysis, statistical techniques, Machine Learning, Deep Learning and predictive modeling with a strong foundation in Python and SQL. Proficient in data visualization and machine learning, with a passion for transforming raw data into actionable insights. Committed to continuous growth and ready to contribute to innovative teams.

KEY SKILLS

- **Languages:** Python | SQL
- **Tools:** Jupyter Notebook | Google Colab | SQL Server Management Studio (SSMS)| Excel | Power BI | Git
- **Libraries:** NumPy | Pandas | SciPy | Seaborn | Matplotlib | Scikit-learn | Tensorflow | Keras | NLTK
- **General Skills:** Data Analysis | ML Algorithms | Statistical Concepts | Mathematical Concepts | Data Modeling | Statistics | Machine Learning Models | Data Analysis | Deep Learning | CNN | ANN | NLP

PROJECTS

Emotion Classification System Based on Neural Networks

- Validated and preprocessed a dataset of 27,000+ images with 7 emotional labels, ensuring all images were non-corrupt, enhancing data quality for model training.
- Developed a custom **CNN** model using **transfer learning** with **VGG19** and fine-tuning with **ResNet50,** leading to a significant increase in emotion classification accuracy.
- Employed advanced **image augmentation, dropout, batch normalization**, and techniques, resulting in improved model robustness and performance.
- **Evaluated model** effectiveness with **classification metrics**, achieving great accuracy through techniques like class weights, early stopping, and adaptive learning rate adjustments.

Duplicate Question Detection System Using Advanced NLP and Machine Learning

- Developed an advanced machine learning model to identify duplicate questions on Quora, leveraging **NLP** techniques like **TF-IDF, Word2Vec**, and engineered over large high-value features.
- Created custom **token**, **length**-**based**, and **fuzzy** matching features, significantly enhancing the model's ability to capture subtle question similarities.
- Solved class imbalance through effective class weighting, achieving an **80% accuracy** with Random Forest and various other model, and **improving recall** for duplicate question identification.
- Cleaned and preprocessed large datasets using **advanced text processing** techniques (stopword removal, tokenization, scaling), ensuring data integrity and model efficiency.

Customer Segmentation Analysis

- Collected and **cleaned a dataset** of 541,909 records, refining it to 406,829 entries for accurate analysis.
- Applied machine learning models and RFM analysis using Python, segmenting over 50,000 UK customers based on recency, frequency, and monetary value.
- Provided **data science techniques** and analytical solutions that increased customer retention by 20% and **boosted sales revenue by 15%** through targeted marketing.

Customer Churn

- **Collected, cleaned, and organized** diverse customer data to build accurate predictive models using Python, achieving 92.46% accuracy.
- Collaborated with cross-functional teams to integrate **predictive analysis** insights into retention strategies, **reducing churn by 15%.**
- Presented analytical solutions through reports and visualizations that enhanced customer satisfaction and loyalty through optimized service offerings.

EDUCATION

Mumbai University | Mumbai

Bachelor's Degree in Mechanical Engineering

- CGPA - 8.76

CERTIFICATIONS

- MS SQL Developer Course by Intellipaat Software Solution
- Machine Learning with Python-From Linear Models to Deep Learning