

# Mayur Kini

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## SUMMARY

Energetic data professional skilled in data analysis, statistical techniques, Machine Learning, Deep Learning, Natural Language Processing (NLP) 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

## EXPERIENCE

### Analyst Intern - Adani Electricity

May 2022- May 2023

- Developed and maintained over 10 **interactive dashboards**, which increased real-time **KPI** monitoring efficiency by 250%, allowing stakeholders to make faster, **data-driven decisions**.
- Implemented predictive maintenance strategies that **optimized** service schedules based on **real-time data**, resulting in a 20% reduction in maintenance costs and a **30% boost** in machine reliability.
- Provided actionable **insights** through **SQL** and **data visualization** tools, integrating mechanical and **analytics-driven** improvements that **boosted machine uptime by 15%** and overall plant performance.

## PROJECTS

### Emotion Classification System Based on Neural Networks

[\[Link\]](#)

- Developed a **deep learning**-based emotion detection system that classifies emotions (happiness, sadness, anger, fear, surprise) with up to 67% accuracy on the FER2013 dataset, using a combination of custom **CNN**, **VGG16**, and **ResNet50** models to improve classification performance.
- Enhanced model effectiveness through 50% **data augmentation** and 30% reduction in **overfitting** by applying advanced techniques like **transfer learning**, **class weighting**, **regularization**, and **learning rate scheduling**, effectively **handling dataset imbalances**.
- Delivered a **scalable solution** with potential applications in mental health monitoring, customer feedback analysis, and user experience personalization, offering **real-world impact** across multiple industries.

### Duplicate Question Detection System Using Advanced NLP and Machine Learning

[\[Link\]](#)

- Developed an NLP-based system achieving **81% accuracy** on the Quora Question Pairs dataset, significantly enhancing content filtering and duplicate detection.
- Improved model performance by 10% through **advanced text preprocessing** and **feature engineering**, including techniques like **HTML tag removal**, fuzzy matching ratios, and length-based features etc.
- Streamlined model training and evaluation using Count and **TF-IDF Vectorizers**, enabling scalable duplicate detection for content management and **improved search results** on large Q&A platforms.

### Customer Segmentation Analysis

[\[Link\]](#)

- Conducted RFM analysis on a dataset of over 500,000 customer transactions, segmenting customers into five distinct groups, enabling **targeted marketing strategies** and potentially increasing customer retention.
- **Cleaned** and **preprocessed** a large dataset, removing 3% of cancelled orders and negative values, improving **data accuracy** and ensuring robust segmentation results.
- Applied **K-Means** clustering with five clusters and achieved a **silhouette** score of 0.5, identifying **key customer segments** and enabling personalized campaigns that significantly boosted customer engagement.

## EDUCATION

### Mumbai University | Mumbai

- *Bachelor's Degree in Mechanical Engineering - 8.76 CGPA*

## CERTIFICATIONS

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