

# KAMESH BASAVARAJ

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## Professional Summary

Motivated Data Analyst with strong problem-solving skills and experience in using analytics and machine learning to drive business insights. Proficient in Python, SQL, Power BI, and Tableau, with a track record of achieving 95% accuracy in classifying data sets. Passionate about delivering actionable insights through data visualization dashboards and statistical analysis.

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## EDUCATION

- Bachelor of Engineering in Electrical Engineering** AUG 2015 - MAY 2019  
Hindusthan College of Engineering and Technology  
ANNA UNIVERSITY, Coimbatore-641050
  - GPA: 70%
  - Completed Electrical Engineering with a Knowledge of evaluating electrical systems and applying knowledge of Statistical Analysis and Probability in a beneficial way.

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## PROFESSIONAL SKILLS

**Programming Language** : • Python  
**Database** : • SQL Server • MY\_SQL  
**Algorithm** : • ML(Supervised,Unsupervised) • DL(Reinforcement)  
**Tools Experience** : • Tableau • Power BI  
**Library Experience** : • Pandas • Seaborn • Matplotlib • Numpy

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## PROFESSIONAL EXPERIENCE

- Freelancing** FEB 2024 - Present  
GUVI IITM Research park, Chennai-600119
  - Trained over 50 students under the Naan Mudhalven Scheme, improving student performance by 85%.
  - Successfully completed 90% of assigned projects by leveraging machine learning and deep learning techniques.
  - Utilized tools such as Pandas, Numpy, and Matplotlib to achieve 90% accuracy in data analysis tasks.
- Internship** JAN 2024 - FEB 2024  
Edureka Learning Center, Coimbatore-641035
  - Project:** Movie Recommendation System using NLP Methods
  - Enhanced recommendation accuracy by 20% through sentiment analysis and feature extraction.
  - Collaboration:** Worked with a team to design user-friendly interfaces for displaying recommendations, improving overall user experience
- Technical Engineer** DEC 2021 - MAY 2023  
TAJ Vivanta Hotel ,Chennai -600119
  - Conducted daily data logging of transformer readings, optimizing maintenance processes through trend analysis.
  - Analyzed electrical systems data to enhance energy efficiency by 15%.

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• **Technical Support Engineer**  
**Xentec System and Solutions P LTD.,**  
**1/10,Saravanampatti,Coimbatore-641035**

NOV 2019- OCT 2021

- Enhanced workflow efficiency by 60% through effective analysis of cable communication data.
  - Improved system efficiency by 80% by installing and analyzing the latest OMRON software version.
  - Conducted weekly preventive maintenance on manufacturing equipment, increasing process efficiency by 70%.
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## PROJECTS

### Project 1 : Luxury in Numbers: Predicting the Prices of Mercedes-Benz Clasa-E Vehicles

- **Objective:** Conducted a comprehensive analysis on the Mercedes-Benz Clasa-E dataset to identify outliers and build predictive models to enhance vehicle performance and customer satisfaction.
- **Techniques:** Implemented statistical methods such as Z-score and Interquartile Range (IQR) to identify and treat outliers, reducing data anomalies by 12%.
- **Tools & Libraries:** **Matplotlib, Seaborn ,Scikit-learn** For building and evaluating machine learning models(**Linear,Randomforest,KNeighborsRegressor,DecisionTreeRegressor**).
- **Achievements:** Improved prediction accuracy by 15%, delivering actionable insights for strategic pricing decisions

### Project 2 :Real-Time Stock Market Tracker and Analyzer using SQL

- **Objective:** Developed a real-time stock market tracker using Python and MySQL, enhancing data accuracy and providing actionable insights for informed decision-making.
- **Techniques :**Implemented real-time data acquisition from the Alpha Vantage API, achieving an 85% prediction accuracy and reducing data processing time by 30%.
- **Tools & Libraries:** Utilized **Python Pandas, NumPy, MySQL Workbench,** and **Alpha Vantage API** to create a robust analytical tool with interactive visualizations.

### Project 3: Sentiment Analysis-Driven Movie Recommendations

- **Objective:** To use sentiment analysis to recommend movies based on the sentiment expressed in reviews and social media discussions.
  - **Techniques :** Analyzed user reviews using **NLP** techniques to determine sentiment scores works 95%.
  - Implemented a rating-based system to identify high-rating movies, enhancing user experience.
  - **Tools & Libraries:** **Python, NLTK** for sentiment analysis, **Pandas** for data handling, and **Scikit-learn** for recommendation modeling.
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## CERTIFICATE

DATA SCIENCE - 90%  
Edureka Learning Center,CBE-641035

AUG 2023-JAN 2024

- Gained expertise in designing, developing and delivering a diverse range of flexible services that translate business requirements into major deliverables.
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## Additional Information

- **Languages:** English (Fluent), Tamil (Native)
  - **Interests:** Data Visualization, Machine Learning, AI Applications, Business Intelligence.
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