Sameksha Bafna

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PROFESSIONAL SUMMARY

Final-year BCA student with a 9.06 CGPA and hands-on experience in machine learning and software development. Successfully completed multiple data science projects, including predictive modeling and real-time application development. Proven ability to solve complex technical problems and collaborate in dynamic team environments

EDUCATION

KLE Technological University, Hubballi **June 2022- Present**
Bachelor of Computer Application CGPA*:* 9.06
KLE INDP SC PU College, Gangavathi **June 2021**
Senior Secondary (XII) 97.17%
Little Hearts School, Gangavathi **June 2019**
Secondary Education (X) 92%

TECHNICAL SKILLS

- **Languages:** R**,** C, Python, Machine Learning, C++, Statistics, Java, Deep Learning, Data Analytics, Cyber Security
- **Database Tools**: MySQL, SQL, MongoDB
- **Libraries/Frameworks**: TensorFlow, Scikit-learn, Pandas, Seaborn, Numpy
- **Developer Tools**: IntelliJ, VS Code, GIT, Kaggle, DevOps, Jupyter, Google Collab

PROJECTS

1. **TOPIC: Predicting Housing Prices Using Linear Regression on Ames Housing Dataset** Aug 2025-Sep 2025
   Technologies used: python, seaborn, numpy, Ames Housing dataset
   Developed a linear regression model using Python, Seaborn, and NumPy to predict housing prices with an accuracy of 95%.

2. **TOPIC: KLE Tech BCA College Website** JAN 2024 – MAY 2024
   Technologies used: MERN
   Developed and deployed a project management system for faculty and students to track project details and reviews.

3. **TOPIC: Learn to build a real-time Application for Age and Gender Detector using Machine Learning** July 2024
   Technologies used: Machine Learning using Python.
   Developed a real-time application using Python and CNNs for age and gender detection with 90% accuracy.

CO-CURRICULAR ACTIVITIES

1. Secured 1st Prize in an inter-college throwball tournament.
2. Secured 1st Prize in inter-college Quiz College competition

INTERNSHIPS

1. **YBI-Foundation**- Data Science and Machine Learning Internship.
2. **Null Class**-Learn to build a real-time Application for Age and Gender Detector using Machine Learning
3. **CodTech** -Predicting house prices using Linear Regression on Ames Housing Dataset

CERTIFICATIONS

1. Secured **1st Prize** in Paper Presentation at PRAXIS 2024, KLE College of Engineering and Technology, Chikodi, Karnataka
   Topic: Heuristic Approach for Detecting and Neutralizing Black Hole Attacks in Wireless Sensor Networks
2. Secured **1st Prize** in Paper Presentation at INSIGNIA 2024, SDM College of Engineering and Technology, Karnataka
   Topic: Heuristic Approach for Detecting and Neutralizing Black Hole Attacks in Wireless Sensor Networks
3. Secured **1st Prize** in Paper Presentation at AGRATHA 2024, AGMR College of Engineering and Technology, Karnataka
   Topic: Heuristic Approach for Detecting and Neutralizing Black Hole Attacks in Wireless Sensor Networks
4. **NPTEL**- Data Science for Engineers (58%)
5. **Udemy**- The Complete Python Bootcamp from Zero to Hero in Python
6. **Udemy**- Machine Learning using python
7. **Udemy**- The Complete SQL Bootcamp: Go from Zero to Hero
8. **IBM –** Data Analysis for Machine Learning

RESEARCH

1. **Securing Wireless Sensor Networks: Swarm – Enabled Intrusion Detection Systems Against Dynamic Black Hole Attacks**
   Developed a Swarm-Enabled Intrusion Detection System (SE-IDS) for Wireless Sensor Networks (WSNs) using Ant Colony and Artificial Bee Colony algorithms to enhance security and efficiency against dynamic black hole attacks..
2. **A Comprehensive Clustering- Based Analysis of the Imapct of Plastic Ban on Ocean-Dependent Industries**
   This project uses clustering algorithms like K-means to analyze how the plastic ban affects ocean-dependent industries, identifying key industry groups impacted by the ban.

PERSONAL TRAITS

- Adaptability to change
- Leadership
- Presentation skills
- Communications skills
- Teamwork
- Time Management

PERSONAL DETAILS

- **Date of Birth:** 06-12-2002
- **Gender:** Female
- **Nationality:** Indian