# SAMARTH BHADANE

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## EDUCATION

**Agnel Polytechnic, Vashi –** *Diploma in Artificial Intelligence & Machine Learning*      *September 2021- Present*
*Sem-V: 87.38%*
*Honors:* Asst. Technical Secretary, Student Council
*Relevant Coursework:* Introduction to Artificial Intelligence, Machine Learning Fundamentals, Data Science and Analytics (statistical analysis, and data visualization techniques), Database Management Systems (SQL, Cloud Management), Managing Groups and Teams

**M.R.P. Military School, Shirpur**- *High School, X*      *Grade: 91.4 | May 2020*

## ACADEMIC PROJECTS & EXPERIENCE

**DNA Sequence Analysis Tool –** *Final Year Project*      *August 2023 – Present*
- Currently developing a DNA sequence analysis tool in Python, for sequence validation, matplotlib for visualization, and scikit-learn for machine learning tasks.
- Implementing functionalities for importing sequences, validating DNA, and counting nucleotides.
- Applying various classifiers and evaluation metrics for predictive modeling.
- Employing data preprocessing techniques and feature scaling to enhance genetic data analysis and visualization.

**Diabetes Prediction Project–** *Industrial Training Project*      *May 2023 – July 2023*
- Implemented a diverse range of machine learning algorithms for diabetes prediction. Leveraged Logistic Regression, Decision Trees, Support Vector Machine (SVM), Random Forest, K-Nearest Neighbors (KNN), and Neural Networks to achieve accurate results.
- Applied key health metrics such as Glucose, BMI, and Diabetes Pedigree Function in feature selection.
- Demonstrated proficiency in handling outliers and achieving robust predictions across various models, showcasing adaptability and depth in machine learning techniques.

## PROFESSIONAL EXPERIENCE

**WKKF –** *Web Developer; Thane*      *December 2023 – Present*
- Led the design and development of a dynamic and user-friendly website tailored to the needs of martial arts enthusiasts. Implemented responsive and visually appealing interfaces that seamlessly integrated event schedules, member profiles, and competition results
- Streamlined communication channels through interactive forums and newsletters, fostering community engagement.
- Continuously maintained and updated the website, ensuring optimal performance and an enriched online experience for the Karate Federation's diverse audience.

## SKILLS / INTERESTS

- Languages: C, Python, Java, JavaScript, HTML, CSS,
- Frameworks: TensorFlow, scikit-learn, Next.js, React
- Proficient with: AWS, Microsoft Office Tools, DaVinci Resolve, FL Studio, Photoshop, Canva, and more
- Fluent in Hindi, English, Marathi