SAHADRI BHATTACHARYYA

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SUMMARY

Enthusiastic ML intern with hands-on experience in predictive modeling, NLP, and full-stack web app development. Skilled in Python, R, Flask, and cloud deployment. Strong knowledge of ML algorithms, software development life cycle, and model evaluation. Currently expanding expertise in TensorFlow and deep learning.

EDUCATION

Kalinga Institute of Industrial Technology B.Tech in Computer Science Engineering **Expected graduation - May 2026**

TECHNICAL SKILLS

- Languages: Python, R
- Web Development: Flask, HTML, CSS, REST APIs
- ML/AI: Scikit-learn, TensorFlow, Logistic Regression, SVM, Random Forest
- NLP: TF-IDF, Lemmatization, N-gram, Stopword Removal
- Tools: Git, GitHub, Google Colab, VS Code, AWS

EXPERIENCE

***CORIZO* ,Machine Learning Intern 05/2024-07/2024**

- Developed ML models in Python and R with up to 92% accuracy, improving trend analysis speed
- Built deep learning models handling 100k+ data points, boosting classification accuracy by 20%.
- Applied NLP for sentiment analysis on 50k+ reviews, achieving 85%+ F1-scorevia TF-IDF, lemmatization, and n-gram modeling.
- Used NumPy and pandas for optimization, reducing data prep time
- Explored Generative AI tools to automate content generation and improve workflow efficiency.

COURSERA

- Gained a solid understanding of SDLC, software testing, and quality assurance practices.
- Designed software systems using architectural patterns, UML diagrams, and planned API routes.
- Applied version control with Git/GitHub for collaboration, code management, and deployment.
- Built responsive frontends with HTML/CSS and developed full-stack applications using Flask; understood web architecture, REST APIs, and core programming concepts.

PROJECTS HEART DISEASE

PREDICTION WEB APP

ML + Web Development | 2024

- Preprocessed the dataset by handling missing values, applying feature scaling, and encoding categorical variables using one-hot encoding.
- Trained and evaluated four machine learning models — Logistic Regression, SVM, Random Forest, and a Neural Network — using 10-fold cross-validation.
- Achieved 98% accuracy and a 0.91 ROC-AUC with the Random Forest classifier, fine-tuned via Grid Search CV.
- Built a Flask backend integrated with a responsive frontend for real-time heart disease predictions.
- Deployed the application on Render for public access.

Live Demo: https://heart-disease-predictor-xo2z.onrender.com/

SENTIMENT ANALYSIS ON IMDB MOVIE REVIEWS MINI-PROJECT

- Developed a sentiment analysis model using the IMDB movie reviews dataset with text preprocessing techniques like tokenization and TF-IDF vectorization.
- Applied NLP methods including stopword removal, lemmatization, and n-gram generation to enhance feature extraction.
- Classified reviews as positive or negative and evaluated model performance using accuracy, precision, recall, and F1-score.

CERTIFICATIONS

- AWS Machine Learning Foundations – AWS (2024)
- Machine Learning Internship – Corizo (2024)
- Introduction to Software Engineering – IBM via Coursera (2025)