Madhura S N

Portfolio Website
Bachelor of Engineering in Computer Science
Acharya Institute of Technology, Bangalore

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GitHub Profile
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Education

•Bachelor of Engineering in Computer Science and Engineering *2022 – 2026*
Acharya Institute of Technology, Bangalore CGPA: 8.9

•12th Grade (PUC) *2019 – 2021*
Sir MV PU College, Davanagere Percentage: 100%

•10th Grade (SSLC) *2018 – 2019*
KristaSharana VidyaPeeta School, Hagaribommanahalli Percentage: 99.20%

Technical Skills and Coursework

Languages: JAVA, Python, Javascript, HTML+CSS
Web Dev Tools: Nodejs, VScode, Git, Github
Frameworks: ReactJs
Cloud/Databases:MongoDb, Relational Database(mySql)
Relevent Coursework: Data Structures & Algorithms, Operating Systems, Object Oriented Programming, Database Management System, Web development.
Soft Skills: Problem Solving, Self-learning, Presentation, Adaptability

Experience

•IBM SkillsBuild Internship *November 6, 2023 – December 4, 2023*
IBM SkillsBuild Remote

- Created solutions for real-world challenges with hands-on experience in Artificial Intelligence technology, enhancing future employability.
- Completed IBM-certified course modules covering Artificial Intelligence, Natural Language Pr and Machine Learning.
- Developed a project based on AI using the concepts and tools learned during the internship.

Projects

•Vehicle Detection and Counting System [GitHub] *2024*
A web-based system for detecting and counting vehicles from uploaded video footage.

- Detects and counts vehicles crossing a defined line in user-uploaded video feeds.
- Implements object detection and tracking algorithms for accurate vehicle movement analysis.
- Technology Used: Python, OpenCV.

•Sentiment Analysis on Movie Reviews [GitHub] *2025*
Machine learning pipeline to classify movie reviews into positive, negative, or neutral sentiment.

- Cleaned and preprocessed text data using tokenization, stopword removal, stemming, and TF-IDF vectorization.
- Trained and evaluated models like Logistic Regression, SVM, and Random Forest with cross-validation.
- Achieved over 90% accuracy using optimized models and performed error analysis with confusion matrix.
- Technology Used: Python, Scikit-learn, Pandas, Matplotlib, NLTK.

•Random Password Generator [GitHub] *2025*
Generates secure random passwords and shows strength based on rules. Clean, minimal UI for easy usage.

- Generates strong random passwords based on customizable rules and length.
- Evaluates and displays password strength dynamically for user guidance.
- Technology Used: HTML, CSS, JavaScript.

Achievements

- Winner – Acharya INNOVATEX'24.
- Got selected for 2nd round of Myntra HackerRamp 2024.
- SheCodes Scholar.

Certifications

- The Complete Web Development Bootcamp - Udemy
- Google UX Design Professional Certificate - Coursera
- Career Essentials in Data Analysis by Microsoft and LinkedIn - LinkedIn Learning