

Deivanai Saravanan

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SKILLS

- **Languages:** Python, Java , C, HTML, CSS, JavaScript, SQL, Haskell
- **Frameworks:** React, Rasa, NodeJS
- **Tools:** MATLAB, GIT, Tableau, MySQL, MongoDB, AutoCAD, L^AT_EX
- **Soft Skills:** Leadership, Collaboration, Adaptability, Time Management, Determined

ACADEMIC QUALIFICATIONS

- **Amrita Vishwa Vidyapeetham** Bangalore, India
Bachelor of Technology - Computer Science & Engineering; Current GPA: 9.35 2022 - 2026
- **Narayana PU College** Bangalore, India
CBSE 12th; Percentage: 94.6 2020 - 2022
- **Sri Chaitanya Techno School** Bangalore, India
CBSE 10th; Percentage: 90 2020

PROJECTS

- **BUDS Crochet** Team project
Web Development, Real-Time Communication, API Integration Work in Progress
 - A Collaborative Platform for Crafting, Sharing, and Exploring Crochet Patterns. Developing a comprehensive web application for crochet enthusiasts to create, share, and explore crochet patterns.
 - **Tech Stack:** React.js, Node.js, Express.js, MongoDB, JSON Web Tokens (JWT), Socket.IO, AWS, Vercel, Blender, Ravelry API
- **Predicting Osteoporosis Risk in Postmenopausal Women** Team project
EDA, Machine Learning, Explainable AI October 2024 - November 2024
 - Conducted exploratory data analysis to uncover patterns and relationships in NHANES survey dataset. Designed a machine learning model to predict osteoporosis risk in postmenopausal women. Addressed class imbalance using SMOTE and enhanced data reliability through rigorous preprocessing. Implemented Explainable AI tools for better model interpretability.
 - **Tech Stack:** Python, Scikit-learn, LIME, SHAP
- **Budget Buddy** Team project
DBMS, Web Development November 2023 - December 2023
 - Developed an web application that enables users to efficiently track income and expenses, maintain monthly budget, manage accounts, and achieve financial goals.
 - **Tech Stack:** React, Node.js, MySQL
- **HealthBot** Team project
NLU, Web Development July 2023 - October 2023
 - Developed a web-based chatbot using the Rasa framework to help users identify potential diseases based on input symptoms.
 - Utilized an extensive medical dataset to develop a model that identifies potential diseases from user-input symptoms, displaying descriptions, symptoms, and precautions for each identified disease.
 - **Tech Stack:** MongoDB, React, Node.js, Express.js, CSS, Rasa

HONORS AND ACHIEVEMENTS

- **TalentSprint Women Engineers (WE) Program (Cohort 5 Scholar) Supported by Google** 2023 - 2025
Technical and Leadership Development, Corporate Readiness
 - Secured a spot among the top 1% of scholars from more than 22,000+ eligible applicants across the country.
 - Gained expertise in programming, problem-solving, and professional skills to excel in tech-driven roles.

PUBLICATIONS

- **An Automated 2D Octic Order Triangular Mesh Generator in MATLAB for Sustainable** ES Journal
Solutions through Finite Element Scheme 2025
Mesh Generation, Finite Element Analysis, MATLAB
 - Automated mesh generation using octic order triangular elements for various two-dimensional domains. The proposed meshing technique is useful in engineering applications where complex geometries with internal voids need to be meshed for finite element analysis.
- **Classification of Structures and Monuments Based on Indian Architectural Style** Under Publication
Machine Learning, Deep Learning, Image Processing 2025
 - Used Histogram of Oriented Gradients (HOG) for feature extraction and utilizes classification models like Logistic Regression, Random Forest, XGBoost, DenseNet, and InceptionV3. DenseNet achieved an 86% accuracy rate in identifying architectural styles, making it the most effective among the models tested.

EXTRA-CURRICULAR ACTIVITIES

- Technical Lead at **Google Developer Groups On Campus (GDGoC ASEB)** 2024 - 2025
- Treasurer at **CodeChef ASEB** 2024 - 2025