

Sabarivelan M

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About Me



AI and Data Science enthusiast with skills in machine learning, data analysis, and programming. Published researcher and active in collaborative projects, social causes, and tech competitions. Eager to apply innovative solutions to real-world challenges in AI.

Education

Bachelor of Technology in Artificial Intelligence and Data Science

Kumaraguru College of Technology, Coimbatore, IN (November 2022 – Present)

HSC

R J Mat Hr Sec School, Coimbatore, IN (May 2022)

SSLC

R J Mat Hr Sec School, Coimbatore, IN (May 2020)

Experience & Achievements

Competitions & Hackathons

▮ Presenter – Paper Presentation on AI in Smart Computing (Mar 2023) –

Titled "**Predictive Modelling of Cardiovascular Disease Using ML Models**", focusing on AI-driven healthcare advancements.

- Explored the role of AI in Smart Computing, emphasizing automation, efficiency, and intelligent decision-making.
- Analyzed various machine learning models, including **Decision Trees, SVM, and Neural Networks**, for disease prediction.
- Highlighted real-world applications of AI in predictive analytics, smart healthcare, and intelligent automation.

- This experience deepened my understanding of AI's transformative impact on computing and problem-solving.

Workshops & Mentorship

Workshop Attended (May 2024) – KCT

- Conducted a hands-on workshop on **Generative AI with Transformers**, getting the practical experience.

Workshop Attended (Nov 2023) – KCT

- Conducted a hands-on workshop on **Full Stack Development**, getting practical experience in full stack development.

Peer Mentor (Dec 2024 – Present) – KCT

- As both a peer mentor and a fellow learner, I had a fulfilling experience as part of the organizing team for this **Faculty Development Program (FDP)**. Working alongside **B.Tech and M.Tech** students, as well as faculty mentors, we delved into the fundamentals of **Jetson Nano Developer Kits, Edge AI applications, Q-cars, and Digital Twins**, creating an engaging and hands-on learning environment.
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Projects

Artificial Intelligence & Computer Vision

Cardio-Vascular Disease (Mar 2023)

- ◊ **Tech Stack:** Pandas, Sklearn, Tensorflow, SVM, Python
 - Built an **Machine learning model** that predicts which model are making better cardiovascular diseases.
 - **Optimized the Decision Tree model using Techniques** reducing manual effort and improving efficiency.

Sentiment Analysis (May 2023)

- ◊ **Tech Stack:** Pandas, Sklearn, TensorFlow, NLP, Python
 - Built a **Machine Learning model** that analyses and classifies sentiments from text data.
 - **Optimized the NLP model using advanced techniques** to enhance accuracy and reduce computational cost.

Web Development

⚡ News App Development (Nov 2024)

◆ Tech Stack: MERN Stack

- Developed a news application that fetches **real-time news updates** from various sources.
 - Implemented user authentication, category-based filtering, and bookmark functionality.
 - GitHub: [Git- Source Code](#)
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Robotics, 3D Design & Embedded Systems

Fusion 360 (GitHub link: [Fusion-360](#))

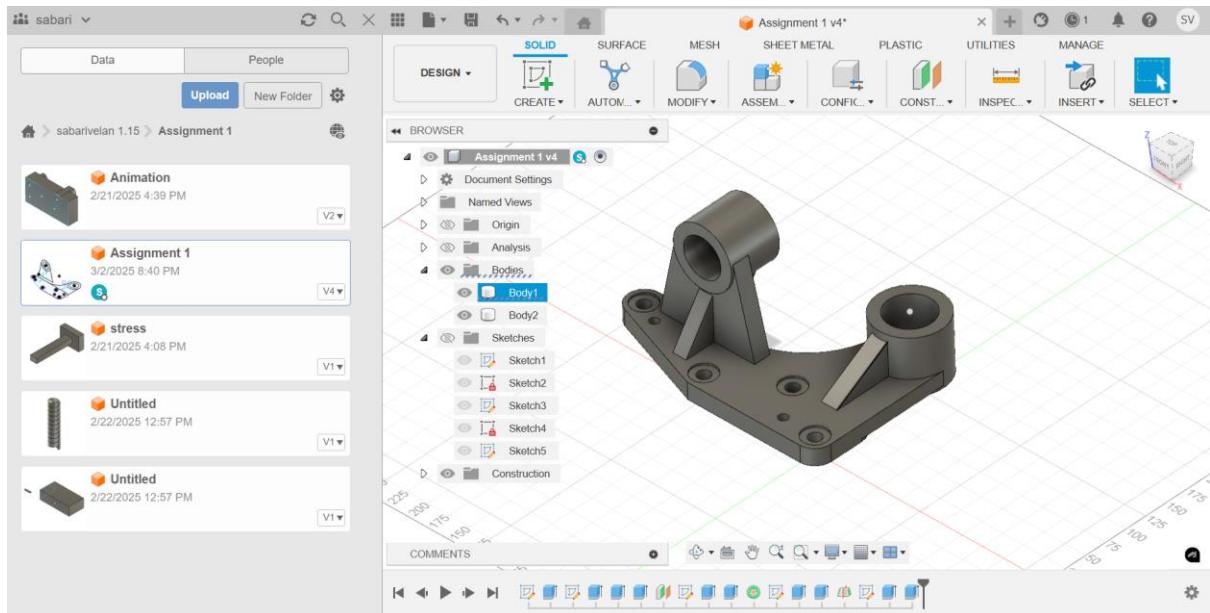
⌚ 6-Axis COBOT Design (*Fusion 360*)

- Designed a **6-axis collaborative robot (COBOT)** using **Fusion 360**, applying **mechanical and kinematic principles**.



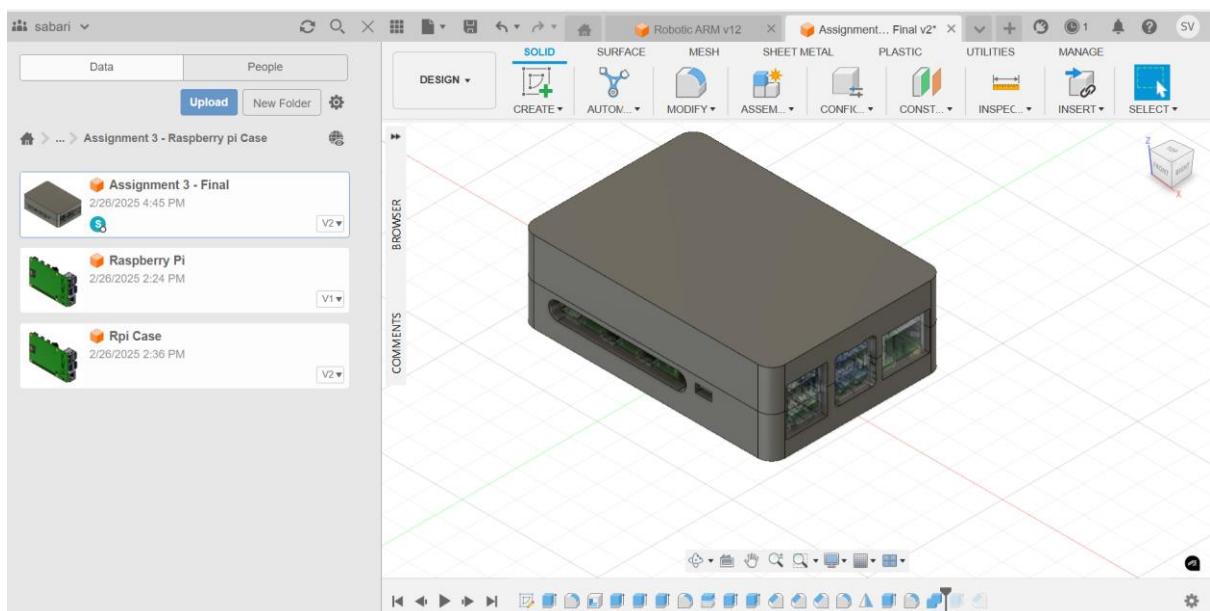
⌚ 3D Model Structure (*Fusion 360*)

- Modelled a **3D structure**



⌚ Raspberry Pi 5 Case (Fusion 360)

- Designed a custom **Raspberry Pi 5** case using Fusion 360.
- Focused on ventilation, component accessibility, and compact form factor.



Technical Skills

-  **Programming Languages:** Python, Basics of R, Basics of C++
 -  **Frameworks & Tools:** TensorFlow, Streamlit
 -  **AI & ML Libraries:** pandas, NumPy, Matplotlib, OpenCV, Keras, Sci-kit Learn,
 -  **3D Designing & Modeling:** Fusion 360
 -  **Prototyping Tools:** Figma, MIT App Inventor
 -  **Circuit & PCB Design:** KiCad
 -  **Developer Tools:** Git, VS Code, Excel
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Contact & Links

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