

Harish Balamurugan

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Education

- **Rajiv Gandhi Institute of Petroleum Technology, Jais, Uttar Pradesh** 5.45 (CGPA till 3rd semester)
Bachelor of Technology - Electronics Engineering 2022- 2026
- **Thamarai International School, Karunthattankudi, Thanjavur(TN)** Percentage: 74.00
Class 12th (CBSE) 2022
- **Chettinad Public School, Managiri, Karaikudi(TN)** Percentage: 81.00
Class 10th (CBSE) 2020

Skills

- **Programming Languages:** Python, C
- **Design and simulation software:** Matlab,NG Spice, Autocad
- **Libraries:** Numpy, Pandas, Seaborn, Tensorflow, OpenCV, Matplotlib

Projects

- **Heart Disease Prediction :** October 2023 - October 2023
 - Self project
 - This project aims providing solution for predicting heart disease in patients. I used a deep neural network for this task, and achieved around 92% accuracy, and made an API.
- **Cervical Cancer Prediction from pap smear images:** February 2024 - February 2024
 - Self project
 - This project aims providing solution for predicting cervical cancer in patients. I used a deep neural network for this task, and achieved around 96% accuracy, and made an API.
- **Designing of optical sensor for fuel adulteration sensing:** March 2024 - Present
 - Supervisor: Dr.Sajal Agarwal, Assistant Prof.RGIPT, Jais, UP
 - Work in progress.

Research

- **A model heterogeneity aware Federated Learning framework for medical imaging:**
- Working on to propose a novel FL algorithm that can tackle model heterogeneity challenge effectively and beat the SOTA terms.

Achievements

- Qualified JEE-Advanced and JEE-Mains 2022.
- Achieved bronze medal in International Olympiad for English language.
- Passed Cambridge English entry level certificate with distinction.(Entry3-'B1level') March 2016
- Awarded Level1 award in Grade3 communication skills of Trinity College,London. February2016

Extra-curricular Activities

- Currently playing for RGIPT college volleyball team.
- Energia-2024 gold medalist.
- Participated in Udghosh 2023 - IIT Kanpur.
- Participated in CBSE volleyball clusters 2019-2020.