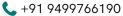
RUSHIRAJ GADHVI



🔀 rushiraj.gadhvi@plaksha.edu.in 📞 +91 9499766190







Python (PyTorch, scikit-learn, pandas, numpy, matplotlib, tkinter, seaborn, opency) | MATLAB | C++ | Dart | HTML CSS | JavaScript | Frameworks: Flutter, Flask, Django

Hardware: Microcontroller Programming, Electronics Prototyping, PCB Designing, Debugging Circuits general: Bash Scripting, Github, InkScape, MSOffice

-EXPERIENCE

International Thermonuclear Experimental Reactor (ITER), India | Research Intern

Present

- Creation of a package suite for plasma emission modeling in XRCS-Edge, an observation spectrometer for the ITER Fusion Project. ITER is the world's largest fusion experiment; 35 nations involved in building most complex machine ever.
- Gained experience in collaboration within a large team, conducting data analysis, and engaging in simulation work.

Physical Research Laboratory (PRL), Ahmedabad | Research Intern

- Conducted precise fine-tuning of model and composition analysis of spectral data using statistical techniques.
- Designed and implemented a Python-based spectrum visualization platform to make the analysis process quicker.
- Gained expertise in research methodology, meticulous data collection, and thorough data analysis, emphasizing strong attention to detail.

Global Admission Committee - UN Millennium Fellowship | Admission Team

May, 2023 - August, 2023

- · Evaluated applications and projects for the annual United Nations Millennium Fellowship Program.
- Reviewed and assessed 31 projects across 4 different regions. Developed strong teamwork and collaboration skills.

Design Freelancer

Nov, 2020 - August, 2023

- · Completed over 90+ design projects for a diverse global client base, showcasing versatility and adaptability.
- · Gained expertise in communication, negotiation tactics, and consistently meeting project delivery commitments.

MADIEE | Game Designer

Jan, 2022 - April, 2022

- · Crafted impactful game mechanics that improved employee performance for client companies by leveraging a deep understanding of human response dynamics and gamification principles.
- Gained valuable insights into the significance of User Experience (UX) in product design and the principles of Behavioral Psychology.

-SCHOLASTIC ACHIEVMENTS -

- AWS AI & ML Scholar 2023 | One amongst 2,000 selected globally, out of 70,000+ applications
- UN Millennium Fellowship 2022 | One amongst 3,000 selected globally, out of 31,000+ applications
- 1st rank amongst 190+ teams at IIT Bombay E-Cell BnB (Bid and Build) Event 2022
- Selected 'Emergency Vehicle Priority System' by Student Startup and Innovation Policy (SSIP), Gujarat amongst 200+ projects - 2020
- Accepted in Zoho School of Technology (Chennai) -2021 Amongst 85+ selected, out of 10,000+ applied
- · Pitched at International Conference ICOSTART'19 (International Research Conference on Innovations, Startups and Investments)
- First Position amongst 200+ teams in Science Modeling at IPR (Institute of Plasma Research) 2019

-PROJECT CONTRIBUTION

Therapia - parkinson analysis app (Flutter, Flask, Python)

Developed a smartphone application to gather vibration information from individuals with Parkinson's disease. Utilized builtin sensors like accelerometer and gyroscope. Employed Machine Learning to identify patterns in the impact of user medication. Project having a potential impact to more than 8.5M+ Patients. Nominated for prestigious S.P.Dutt Award.

ASTROMCMC (Python)

Collaborated with Dr. Arvind Singh Rajpurohit during an internship at Physical Research Laboratory (PRL) on a project focused on data analysis from the VLT telescope at ESO. Employed advanced statistical techniques, specifically the Monte Carlo Markov Chain (MCMC) method, to fine-tune model parameters and identify the abundance of various metal elements in Red Dwarf Stars. Currently in the process of preparing a publication to share the findings and insights gained from this project.

PAGE2CIRCUIT (Python, PyTorch, Streamlit)

Page2Circuit is a project that converts hand-drawn circuit diagrams into meticulously rendered digital schematics. It was developed using PyTorch and OpenCV and made accessible through Streamlit. The model underwent training on a comprehensive open-source dataset containing around 14,000 hand-drawn images of 11 distinct electronic components. Notably, the model achieved an impressive validation accuracy of 90.35%, with room for further improvement.

-Volunteering