Vranda Chag

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Education

- **Medi-Caps University** — Indore, India
  Bachelor of Technology - Computer Science (Artificial Intelligence) ; CGPA: 9.16 — *August 2019 - May 2023*
  Courses: *Project Work*

Skills Summary

- **Languages**: Python, C++, SQL, C
- **Python Lib.**: Matplotlib, Numpy, Keras, TensorFlow, Scikit-Learn, Pandas, BeautifulSoup, MYSQL Connector, PrettyTable, Selenium, Tkinter,PyPDF2
- **Frameworks**: Scikit, TensorFlow, Keras
- **Tools**: GIT, MySQL, Selenium
- **Platforms**: Windows
- **Soft Skills**: Leadership, Event Management, Writing, Content Writing, Public Speaking, Time Management

Experience

- **ISRO - Space Application Centre** — Ahmedabad,India
  Research Intern — *Jan 2023 - Present*
  - Working on Fracture detection using Deep Learning
- **Mitacs Globalink - Concordia University** — Montreal,Canada
  Research Intern — *June 2022 - Sept 2022*
  - Implemented the ray tracing algorithm in C++
  - Implemented various improvements to the ray tracing algorithm to capture more physical phenomenon, realistic reflection models and non-uniform boundary conditions.
  - Visualized the sound field for different boundary conditions, i.e. wall types.
- **Medi-Caps Incubation and Innovation Center** — Indore,India
  Research Team Head — *Sept 2020 - Jan 2021*
  - Helped more than 10 team members to get started with research study, creating source documentation. Organized events to facilitate collaborations, technology tie-up, business development.

Projects

- **Traffic Sign Recognition**: Designed a deep neural network model that can classify traffic signs present in the image into different categories. The model will be able to read and understand traffic signs which is an important task for all autonomous vehicles. Tech: Python(Keras, Matplotlib, Scikit-Learn and Pandas)
- **Python Instagram Bot**: Designed a program to automate some of the basic tasks like automatically like posts or follow people on Instagram to increase the organic reach of any account by up to 30. Ability to like 350 posts and follow 50 accounts in one go. Tech: Python (Selenium and BeautifulSoup).
- **Result Generation**: Designed a software project that generates result based on student examination marks and other details from the database. Helps reduce compilation time, maintain data free of redundancy and perform analysis using graphs. Tech: Python (Numpy, Matplotlib, MySQL Connector and PrettyTable) and MySQL
- **Library Management System** : Designed a software project to automate the basic library functions to aid in the day-to-day operations of a library. Supports functions such as Issue, Deposit, Book search etc. Tech: C++

Volunteer Experience

- **Aarambh'2020, Medi-Caps Incubation and Innovation Center** — Indore, Madhya Pradesh
  Organizing Committee — *Sept 2020*
  - Part of Organizing Committee of the Biggest Technical Fest organized by MIIC of Medi-Caps University. Collaborated with 3+ sponsors for the event.

Achievement

- **Competitive Programming**
  - Secured 5th Position at AlgoQueens Competition organized by Code-Chef Medi-Caps Chapter.
  - 4 Star in Python and C++ on HackerRank.
- **Classical Music (Vocal)**
  - **Prabhakar Degree:** Learning Classical Music (Vocal) which is equivalent to a degree of Bachelors in Music.
  - **Sangeet Visharad:** Pursued degree in Classical Music (Vocal) which is equivalent to Diploma in Music.