Charmi Tank

B.E Computer Engineering Honors in Data Science

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EDUCATION

B.E Computer Engineering Honors in Data Science
Fr. Conceicao Rodrigues College of Engineering

2020 - Present   *CGPA: 9.13*

Higher Secondary Certificate
Vidyavardini's E.S Andrades College of Science

2018 - 2020   *90.00%*

Secondary School Certificate
Shah M.K High School

2008 - 2018   *94.60%*

WORK EXPERIENCE

Project Trainee
Risekraft Consultants

07/2022 - 11/2022

Achievements/Tasks

- The development of client systems, including feature creation, social media webpage management, user profile creation, drafting function requirements, and creating user cases.

Research and Development Intern
Robokart

06/2022 - 07/2022

Achievements/Tasks

- IoT project design, microcontroller implementation, and delivering informative lectures on Drones, Robotics, Electronics, and 3D printing.
- **Projects:** *Line following Bot, SmartMirror, Smart Parking System, Solar Panel Projects*
- **Tools Used:** *Arduino, Raspberry Pi 3B,3B+, Pico, Various Sensors: IR, Ultrasonic, Gas Sensor, RFID, MPU6050.*

ACS (Autonomous Control System)Member
Team Vaayushashtra

05/2021 - 05/2022

Achievements/Tasks

- Developed a homegrown autonomous navigation system for a sub-aircraft utilizing OpenCV and image transformation techniques .
- Computer Vision, Image Processing.
- **Tools Used:** *Raspberry Pi 3B+ and Pico.*

VOLUNTEER

BAPS Swaminarayan Sanstha (2008 - Present)
Volunteer

SKILLS

Languages: Java | C/C++ | Python | HTML | CSS | JavaScript| React.js.

Frameworks : Flask.

Libraries: OpenCV | Scikit-learn | PyTorch | Numpy | Pandas | Matplotlib| Keras.

Databases : SQL.

DevTools : Visual Studio Code| Git | Pycharm | Jupyter.

PERSONAL PROJECTS

Reconstruct 3D scenes from 2D images
- Generative AI :3D model from 2D images used **Depth Estimation (using a monocular depth estimation model) andPoint cloud constructionMesh Generation The hugging face model is called through the Hugging Face Inference API. The 2D to 3D is deployed on Gradio App Interface**

Lunar Sample Detection ⎘
- *Developed a cutting-edge Machine Learning solution for lunar samples, utilizing landscape segmentation techniques to identify areas of interest and applying advanced algorithms for sample analysis.*

Vehicle Routing and Optimisation ⎘
- *Achieved cost savings and operational efficiency by optimizing vehicle routes, selecting lowest-cost carriers, and implementing a sustainability program to track carbon footprint and encourage eco-friendly practices.*

CERTIFICATES

21st century Workplace Skills ⎘
Navya Nanda Naveli Project and workverse

ACHIEVEMENTS

Amazon ML Challenge 2023 (Rank 113) ⎘

SAE Aero Design West, Van Nuys, California, US

Crescendo Hackathon Winners ⎘

Bit N Build Hackathon, Second Place ⎘

Chess(District 4th under 19 girls)

SOFT SKILLS

Passionate & Creative   Adaptability   Teamwork

Leadership   Quick Learner   Work Ethics