Disha Das

disha.das.professional@gmail.com | +91 8895551391 | https://dishadas168.github.io/

PROFESSIONAL EXPERIENCE:

Upwork Freelancer, India   **10/2023 to Present**
- Developed a Telegram bot for Reddit post summarization and QA using Python, MongoDB, Pinecone, Openai LLMs, Langchain, Telegram API, Docker
- Developed a Job Search analyzer app that scrapes job details from any job board using Streamlit, Playwright, Docker
- Developed a demand forecasting pipeline for extracting product data from E-commerce website to Azure SQL using Azure Functions, ADLS, Databricks, Pyspark, MLFlow, Azure Data Factory, PowerBI, Github Actions
- Worked on a Telegram bot for extracting PnL data using screen capture and broadcasting to multiple users

Data Engineer, Altum Solutions (Remote)   **04/2023 to 10/2023**
- Developed Dashboards, Queries using WIQL and maintained Boards on Azure DevOps and PowerBI
- Migrated data and dashboards from Azure DevOps to PowerBI using Azure-Devops API for developing CAPEX reports
Tools: Python, Azure CLI, Azure-Devops SDK, Azure DevOps, PowerBI Desktop

Robotics Research Volunteer, Georgia Institute of Technology, Atlanta GA   **05/2020 - 12/2020**
- Contributed extensively to GTDynamics library using C++, CMake, Linux, PyBullet
- Designed and implemented motion planning of Octopod configuration using Factor Graphs
- Worked on Factor Graphs, GTSAM, Simultaneous State Estimation and Optimal Control

Graduate Teaching Assistant, Georgia Institute of Technology, Atlanta GA   **05/2020 - 12/2020**
- CS6476: Computer Vision, Dr Devi Parikh
- CS4001: Computing & Society

Business Technology Analyst, Deloitte Consulting India Pvt Ltd, India   **11/2016 to 05/2018**
- Worked on testing financial reports and input forms (for loading sales and costs data to database) using SAP Business Planning and Consolidation tool and MS Excel
- Prepared training material for the client to get them up to speed with the tool functionalities
- Highly appreciated for creation of over 500 SIT (System Integration Testing) and UAT (User Acceptance Testing) scripts
- Developed dashboards and visualizations of firm's data using IBM Cognos Analytics for financial reporting
Tools: SAP BPC 10.1, MS Excel Add-In (EPM), MS PowerPoint, IBM Cognos Analytics

EDUCATION:

Georgia Institute of Technology, M.S. in Computer Science (Computational Perception & Robotics)   **08/2019 to 12/2020**
- Master's Project: Spider Robot Motion Planning Optimization using Factor Graphs
- 3.64/4.00 Cumulative GPA

Veer Surendra Sai Institute of Technology, India, B.Tech in Electronics & Telecommunication   **07/2012 to 07/2016**
- Thesis: Enhancing Image Contrast- A Novel Approach Incorporating 2D Histogram Equalization
- 8.13/10.00 Cumulative GPA

RESEARCH PROJECTS:

Ultra-fast Seam Carving for Real Time Object Detection and Removal (Read more)   **08/2019 to 12/2020**
- IEEE International Conference on Computational Photography(ICCP)(2020) Poster
- Introduced hardware and algorithmic speedups to modify the Seam Carving algorithm so that it can be run to remove objects from videos in real time.

Evaluation of 3D Object Detection for Cars by improving existing frameworks (Read more): Compared and improved upon two 3D object detection DL frameworks, PointRCNN and Frustum ConvNet on the Kitti dataset for Cars

Obstacle Avoidance for Kinematically Redundant Mobile Manipulators (Read more): Implemented obstacle avoidance algorithms under different scenarios using GTSAM library for a 6-link mobile manipulator arm

Comparing the performance of Generative Models for Vector Drawing generation (Read more): Experimented with DCGAN, Sketch-pix2seq, VAE-CNN on vector drawing generation and compared performance with our own VAE based model

Human Acceptance of Unpredictable Behaviors in Fully Driverless Ride-Hailing Services (Read more) : Survey based project comparing the leniency shown to errors caused by human drivers vs AVs under different scenarios

SKILLS:

- Strong command of Python, C++ and MATLAB
- Proficiency in PyTorch, OpenCV, ROS
- CI pipelines- Github Actions, Docker
- Visualization- PowerBI, Matplotlib, Streamlit

- Data Engineering Pipelines- Azure Data Factory, Azure Functions, Databricks, Pyspark
- Scraping Pipelines- Playwright, BS4
- LLM Frameworks, Langchain, Openai API