Arya Vardhan Reddy Biri

International Institute of Information Technology, Bangalore

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Education

International Institute of Information Technology, Bangalore — Aug. 2018 – Present
Integrated Masters of Technology in Computer Science Engineering — *CGPA: 3.44/4*

Narayana Junior College, Kukatpally — April 2016 – May 2018
Secondary School Of Education — *Percentage: 97.3%*

Experience

Morgan Stanley — May 2022 – July 2022
Summer Intern - SORA Team — *Bangalore, Karnataka*
- Worked on developing a data ingestion pipeline that would move the current SORA workflow to Cloud. Leveraged Snowflake and Databricks to persist data artifacts from local machines and run analysis on the artifacts

Research Intern — May. 2021 – July. 2021
Under Prof. G. Viswanath — *Bangalore, Karnataka*
- Worked on exploring the current state of the art in Panoptic Segmentation, specifically Panoptic-DeepLab proposed by Google Research using Detectron2 and PyTorch. Work included understanding the current barriers and limitations in the field and experimenting to improve the current instance segmentation method for better real time results.

Projects

Croos Data Model Views | *Python* — May 2022
- Built a python application that would allow users to run SQL like queries over heterogeneous data sources. The application supports materialized and virtual views for SQL and CSV data soruces.

Plasma Donation Website | *Java, Angular, DevOps* — May 2022
- Built a website that would allow users to request for and volunteer to donate Plasma. Frontend is built using Angular and backend using the Spring Framework. The website was deployed using AWS Elastic Beanstalk and RDS. CI/CD pipeline was written using Github Actions

Smart Parking System | *Python, Flutter* — May 2021
- Built a mobile app using Flutter that shows occupancy of parking spaces in a parking lot. Used a Raspberry pi and an ultrasonic sensor to identify vacancy. Real Time Information from the Raspberry Pi was extracted using the ThingsSpeak API and sent to the app using a Flask application.

Animation and Rendering of a 3D Scene | *Javascript, WebGL, Three.js* — May 2021
- Modeled a dynamic scene using a Scene Graph and relative transforms, and used the scene graph to enable animation. Managed lights and camera by handling collisions and generated texture mappings for objects of various shapes.

Product Price Suggestion using NLP methods | *Python, Jupyter* — Dec 2020
- Built a Model to predict the appropriate price for items in a online marketplace using the dataset provided by Mercari. Found interesting patterns throughout the dataset using algorithms like Word2Vec, glove, Tf-Idf, Count Vectorizer and more. Built an ensemble of tree and linear models.

Technical Skills

Languages: Python , C++, C, java, javascript, SQL, OCaml, Prolog
Libraries/Frameworks: Flutter, REST API, detectron2, TensorFlow, PyTorch, Pandas, WebGL, OpenGL. three.js
Technologies: Linux, Windows, Visual Studio 2019, Visual Studio Code, Jupyter, Git, Colab.

Relevant Coursework

- Data Structures
- Machine Learning
- Data Modeling
- Computer Vision and Deep Learning
- Computer Graphics
- Software Testing
- Programming Languages
- Internet of Things
- Data Visualization
- Computer Networks
- DevOps

Leadership / Extracurricular

- Member of the Food Committee for the year 2019-2020.

- Member of the Debate Society at IIITB