

Education

Presidency University
B-Tech, Computer Science and Engineering (CSE)

Bangalore, India
2017-2021

Experience

Machine Learning Intern – Aryabhata Technologies (Startup) Oct 2020 – March 2021

- Research and implementation of Neural network methods for plant segmentation and detection.
- Utilizing OpenCV technique to perform object, edge detection, & image recognition.
- Worked with GANs, Convolutional layers, with multiple hidden layers to generate more data, while having small dataset, using TensorFlow-Keras and PyTorch Library.
- Developing an internal tool to fetch (extract) image data based on user query, using scraping technology like Scrapy, Selenium.
- Developed an internal tool using Keras library for Data Augmentation, impacted the team members to have much large data to process and work with.
- Worked as a Product Developer.
- Acquired experience in technologies such as Selenium, Data Wrangling/Cleaning, PyTorch3D, GANs, OpenCV, Bitbucket.

Web Developer – Cubic-code June 2019 – July 2019

- Worked with the development team in performing design and coding.
 - Acquired experience with various ways to design and develop web pages.
 - Developed designs with coding as per the industry standards.
 - Deployed a Website – [[Website](#)]
-

Skills

- **Programming Languages:** Python, C, C++, Java, JavaScript
 - **Frameworks/Libraries:** TensorFlow, PyTorch, Keras, Flask, ReactJS, JDBC
 - **Cloud:** AWS, GCP, IBM Cloud, Azure
 - **Database Systems:** MongoDB, MySQL
 - **Technologies/Tools:** Git, GitHub, OpenCV, Selenium, Scrapy, Tableau, VS Code, Docker, Kubernetes
 - **Natural Languages:** English • Telugu • Kannada • Hindi
 - **Interests:** Data Science • Deep Learning • Cloud Computing • Web Development
-

Projects

- **Human Protein Image Classification**
 - Using Deep Neural Network, Classifying mixed patterns of proteins in microscopic images.
 - The need is greater than ever for automating biomedical image analysis to accelerate the understanding of human cells and disease.
 - Obtained an overall accuracy of 78%.
 - Got Top-10% in Kaggle Competition [[Kaggle](#)]
- **Face & Gender Recognition using ML and Computer vision in Flask – [[GitHub](#)]**
 - Utilized OpenCV techniques to perform image cropping, detecting face.
 - Using Principle Component Analysis(PCA) to extract Features with Eigen values of images, after tuning - the model got an accuracy of 86%.
 - Performing Data cleaning, EDA, Preprocessing, Training & Tuning the ML model.
 - Created and Deployed Flask app by integrating with my Trained ML model.
 - This app can be used as base to create more advanced like face emotion detection & other.

- **Human pose Estimation** – [[GitHub](#)]
 - Using Computer Vision library, performing Pose estimation on Human
 - Locates different position of human like right hand elbow, eyes, nose etc.
 - Real-time pose estimation using OpenCV
 - **Machine Learning for Twitter API Map Visualization & Sentiment Analysis** - [[GitHub](#)]
 - Real-time tweets from Twitter by bot using automation with Python code.
 - Visualization of plot for user's tweets.
 - Sentiment Analysis was performed on processed tweets.
 - Visualizing the Twitter Data – Map Visualization of mood around the globe
 - **Bhuvan Probability** – [[Project](#)]
 - Published a Python PyPi package on pypi.org
 - Computes the probability for given input
 - **Deep Water Boat House** - [[Link](#)]
 - A Website for booking Boat House in Alleppey
 - A Dynamic website to switch over multiple pages
 - **Other Selected Projects on GitHub** – [[Link](#)]
-

Competitions, Certificates and Activities

- Kaggle Competition – “**Zero to GANs Human Protein Classification**” – Top 10%.
- Attended multiple **Machine Learning** based, **TensorFlow** events and conferences including Google Developers “**DevFest**” in Bangalore.
- Participated in **GitHub <HACK ON/>** a Pan India Online Hackathon.
- **Global Green Revolution** Certification by **ICCE** and **United Nations**
- **Summer Analytics a Data Science** boot camp course (250+ hours) organized by **Consulting & Analytics club, IIT Guwahati**.
- Successfully completed “**IBM Data Science Professional Certificate**” course
- Completed five-course specialization “**Architecting with Google Compute Engine**” by **Google Cloud** on Coursera.
- Completed “**AI from the Data Center to the Edge**” – Using Intel Architecture by **Intel-AI**
- Completed “**Joy of Computing in Python**” and “**Social Networks**” course by NPTEL from **IIT Madras** and **IIT Ropar**.
- Completed “**Open VINO Fundamental**” course on **Intel IoT Edge AI** scholarship by Udacity.
- **Google Action Developer, Alexa Skill Developer** – Created & Deployed the Chatbots in **Google Assistant** and **Amazon Alexa**.