Aditya Samantaray

+918080501024 | aditya.samantaray1@gmail.com | Linkedin: aditya-samantaray | Github: theadityasam | theadityasam.com

EDUCATION

International Institute of Information Technology, Bhubaneswar Bhubaneswar, India
Bachelor of Technology in Computer Engineering, CGPA 8.2 *Aug 2017 - May 2021*

DAV Public School, Nerul Navi Mumbai, India
AISSCE, High School, 91.6% *Aug. 2015 – May 2017*

EXPERIENCE

SDE Intern 2020 May 2020 – July 2020
Dell Technologies *Bangalore, India*
- Worked closely with **Dell's Ireland SRE** team to develop WebApp in **.Net Core** for accessibility scan reports of Dell websites generated by **Gitlab CI/CD**, automatically deployed on **Pivotal Cloud Foundry**.
- Architected the **frontend and backend for the A11Y(accessibility) scan reports** (MVC + Razor Pages in .Net Core) with their scores and categorizing them.
- Created modular **APIs** to access **PostgresDB** using Entity Framework in C#, that generate a score for the reports of Dell's webpages, and also **generate overall accessibility score** of a project to provide a **high-level overview of a project's accessibility to the project teams**.

Google Summer of Code, 2019 May 2019 – Aug 2019
R Project for Statistical Computing *Work from Home*
- Responsible for developing **'Iregnet'**, an **ML library in R** for survival analysis.
- Implemented cross validation method in C++, wrapped the C++ code in R. Fixed convergence problems in the coordinate descent solver.
- Integrated **benchmarks** & **performance improvements** over various datasets, compared to the old package.
- Composed detailed documentation with technical as well as mathematical guides for incoming developers.

Process Automation Intern May 2019 – July 2019
Pepper Content *Navi Mumbai*
- Completely automated the **browser scraping** and **form filling** process for Pepper Content, eliminating the need for employees to manually edit and upload excel sheets for incoming write-ups from writers.
- The bots were created using the **Selenium** and **bs4**(BeautifulSoup) **Python** packages.

PROJECTS

After Sales Support Service System | Github Link | *Flask, sklearn, Laravel*
- Fullstack solution which recommends after sales service to customers on their purchases using machine learning.
- Created the random forest classifier; wrapped the classifier in an API created in flask with preprocessing and prediction routes; created dashboard in Vue for monitoring the services recommended.

Extracting Vegetative Areas from Satellite Images | Github Link | *R, Python*
- Created R scripts to process raw satellite images to detect and cluster vegetative areas.
- Compared the clustered areas at different time intervals to extract crop cycle parameters for detecting farmlands.

Process Scheduling Simulator | Github Link | *Java, JavaFX*
- Created Java desktop application to simulate CPU process scheduling algorithms and display their Gantt Charts.
- Implemented FCFS, Shortest Job First, Shortest Remaining Time First, Priority pre-emptive/non pre-emptive and Round Robin process scheduling algorithms.

TECHNICAL SKILLS

Languages: Python, C++, C#, Java, R, Javascript, Go
Fullstack: Flask, React, .Net Core, NodeJS, PostgreSQL
Developer Tools & Libraries: Git, Docker, TravisCI, Gitlab CI/CD, tidyverse(R), sklearn, tensorflow, pandas

VOLUNTEERING

- Co-author and maintainer of Iregnet R package
- Speaker & Open Source Advocate at Hacktoberfest - IIIT Bhubaneswar Chapter
- Hospitality team lead for Advaita - Annual Techno Cult fest of IIIT Bhubaneswar