SAJ MARU

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EDUCATION

University at Buffalo, New York, USA

Aug 2021 - Dec 2022

Master of Science, Computer Science

Courses: Algorithms Analysis & Design, Intro to Machine Learning, Enterprise-scale AI Systems and Solutions, Computer Vision & Image Processing

University of Mumbai, Mumbai, India

Jul 2017 - May 2021

Bachelor of Engineering, Information Technology

GPA: 9.29/10

Courses: Advanced DBMS, Operating Systems, Data Mining, Dev Ops, Artificial Intelligence, Big data analytics, Project Management

SKILLS SUMMARY

Languages: Python, JavaScript, SQL, Bash, C/C++

Frameworks: Scikit, TensorFlow, Keras, Django, Flask, NodeJS, ReactJS, Angular

Tools IDE's: AWS(EC2, Lambda, S3), Visual Studio, Kubernetes, Docker, GIT, Tableau, Hadoop, Android Studio

Databases: MySQL, MongoDB, SQLite, Firebase, Neo4j

Soft Skills: Leadership, Event Management, Writing, Public Speaking, Time Management

EXPERIENCE

Tata Power ▶

Remote

Back End Developer (Internship)

Jan 2020 - Jun 2021

- Developed a weather-based short-term load forecasting system using Artificial Intelligence.
- Enabling power companies to plan their daily operation ahead of time, avoid any disruptions of their customers, and evade additional costs to these utilities or customers. Achieved model accuracy of 88.75%
- Technology: Python, MongoDB, Keras, Tensorflow, ReactJS, Express, E-Charts

India Meteorological Department D

Remote

Artificial Intelligence Engineer (Internship)

Dec 2019 - Jun 2021

- Developed a weather prediction model using live data recorded at different centers across Mumbai, India on daily basis.
- Trained & Tested various time series algorithms and Artificial Neural Networks to accomplish least error values.
- **Technology:** Python, MongoDB, Keras, Tensorflow, ReactJS, Express, E-Charts

NxtGen Datacenter and Cloud Technologies

Mumbai, India

Cloud Engineer (Internship)

Jun 2019 - Jul 2019

- Built an automated service provisioning manager using cloud technologies.
- Worked on OpenStack, Ansible, and Heat API to automate cloud provisioning processes, migration on multi nodes.
- Created cookbooks on the chef to set up, configure, deploy, and manage servers and applications.
- **Technology:** Python, Bash, Ansible, Openstack

PROJECTS

Unified system for agriculture prediction using AI

Aug 2019

- Application predicts the crop yield based on district weather and prices of the crops based on predicted demand, consumption, and warehousing. Trained 10000+ models and worked on 13 algorithms.
- Technology: Python, Keras, Tensorflow, ReactJS, Selenium

Garbage Vision (>)

Sept 2019

Developed an automated recognition system using a deep learning algorithm in artificial intelligence to classify objects as

dry, wet, E-waste, or biohazard waste for civic bodies to rate communities based on their practice of waste segregation

Faster RCNN model was trained with a dataset of 10000+ images, achieving an accuracy of 85.66%.

Enhancing Sanitation By Capacity Planning of Toilets

Sept 2019

- Developed a smart algorithm using machine learning and computer vision to identify and suggest the most appropriate location to build public toilets.
- Considered factors such as population, number of present toilets, sewage system in the locality, availability of water, electricity.

Stock-It ▶ Mar 2021 - Apr 2021

- Web application for multi-level Inventory Management System using barcode application.
- Complete tracking of the product after code scanning.
- **Technology:** Python, Neo4j, Docker, FastAPI, ReactJS, Echarts

• Lets users stand in virtual queues at essential shops displayed on the map of their locality and predict their queue waiting time to reduce the spread of the virus and follow social distancing standards.

• **Technology:** ReactJS, MongoDB, MapBox

Ingenious Lock System 🕒

Jul 2019 - Dec 2019

- Used IoT technology and application of smartphone communication technology to open or close a door, small units like lockers, and safes remotely through an authenticated application with utmost safety and advanced technology.
- Technology: IoT, Arduino UNO, ReactJS, MongoDB

ACHIEVEMENTS & EXTRA-CURRICULAR

- Smart India Hackathon 2020 Winner
- CSI Technext 2019 Best social impact, Best student Project
- Institution Innovation Council 2020 Winner
- Technical Head & Admin ISTE 2018 2021

- Winner of 20+ Hackathons
- IIC Student Coordinator
- Award of excellence in Sem 1 & 5
- Best use of google cloud award at UB Hacking 2021
- Maker Mela 2020 winner