

SAI AJAY VUTUKURI

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EDUCATION

Master of Science in Data Science, Indiana University Bloomington, IN.	CGPA 4/4	Jan 21 - Present
B. Tech. in Electronics and Communication Engineering, Amrita University, KA, India.	CGPA 8.93/10	Jul14 - May18

SKILLS

Languages	Python, JavaScript, R, Html5, CSS3, C, Arduino, (Python) Scikit-learn, React, Angular, React Native, Ionic
Databases	MySQL
Visualization	Tableau, Plotly, Matplotlib
Cloud	AWS(EC2)
OS & Tools	Mac OS, Linux, Agile (Scrum), Git (Version control), VS Code, NodeJS, RxJS, NGXS,
Relevant Courses	Machine Learning in Signal processing, Statistics, Applied algorithms.

WORK EXPERIENCE

CI for Network Science Center – Software Development Engineer, USA Feb 2021 - Present

- Building scalable and open source visualization tools for a project at the NIH, for researchers from multiple consortia to envision large biological datasets with over 200+ active users from 10 countries.
- Designed an intuitive dashboard to show various statistics calculated from the data and export the data in 3 different formats.
- Built a CI/CD pipeline to automate and accelerate deployments on the production and staging websites.
- Improved code modularity by 40% by implementing a state management system using NGXS and RxJS.

TATA Consultancy Services Ltd - System Engineer, India June 2018 - Jan 2021

Web Application Development

- Developed web applications for an audience using IoT devices. The collected data is processed in machine learning models are sent to a node server using Azure delta lake and Azure data factory.
- The received data is viewed in a web application using charts and graphs.
- The solution built on top of Python, Angular 8, Nodejs with the flavor of Azure delta lake and Azure data factory.

Fitness Tracker (Mobile Applications)

- A platform built for monitoring and tracking fitness-related metrics such as distance walked or run, calorie burnt, cycling, etc. Application is cross-platform available for Android and iOS devices.
- The data collected from trackers like Fitbit, Google Fit, Apple Health or can be entered manually.
- Projects helped me upgrade my skills in Python, Angular 7, Ionic Framework

Emergent Learning & Collaboration Platform for Leading Insurance Group

- Developed Web & Mobile applications to provide services for collaboration, learning & content sharing, currently used by more than 50k+ active users.
- The product makes extensive use of Angular Js, Ionic Framework & Python platform with integrations of different services to provide feature full application.

PROJECTS

Netflix Clone | React, Python, Flask

- Built an end to end Netflix web application and integrated movie trailers from youtube.
- Created a movie recommendation system using machine learning algorithms using sentiment analysis.
- Using NLP, built an algorithm to segregate positive and negative reviews of a movie.

Application of sensor based technology in Aquaculture using IoT | Arduino, IOT Sensors

- Built a prototype based on Water quality parameters with various sensors, Food feeding system with servo motors and send the data through cloud. The data collected from sensors is filtered and displayed on device using charts and graphs.
- Published two research papers in Scopus indexed journals on this Application of sensor based technology in Aquaculture.

ACHIEVEMENT

Winner in Grant Thornton -IDEA virtual case competition on cybersecurity hosted by Indiana University Bloomington and had an opportunity to work under the Grant Thornton and Indiana University mentors.