Samrat Bojanola

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EDUCATION

University of Maryland, Baltimore County — **Baltimore, MD**
Masters in Computer Science — *Aug 2022 – Present*
- Courses: Design and Analysis of Algorithms, Machine Learning, Advanced Computer Architecture, Informational Retrieval, Data Visualization, Management, Leadership and Communication.

National Insititute of technology — **Nagaland, INDIA**
Bachelors in Computer Science and Engineering — *Jul 2017 – Jun 2021*
- Achievements: Awarded the best frontend designer in Ekarikthin at the National Institute of Technology, Nagaland.

COURSE PROJECTS

Twitter Spam and Bot Data Analysis — **Baltimore, MD**
Master's Course Project (Data Visualization) — *Aug 2022 – Dec 2022*
- Developed a prototype for classifying Twitter spam bots using the Twitter API, analyzing over 10,000+ tweets to identify and filter out potential spam accounts, achieving an accuracy rate of 95%.
- Built an interactive front-end website using Typescript and Angular framework with 5 visualizations, increasing user engagement by 50% through user-friendly data exploration and visualization with Google Chart API.

Self-Driving Car — **Baltimore, MD**
Master's Course Project (Machine Learning) — *Aug 2022 – Dec 2022*
- Optimized real-time video analysis model using Nvidia's 2016 paper on self-driving cars.
- Upgraded the model with advanced methodologies such as dropout and truncated normal weight initialization, and removed max-pooling, resulting in a 90% boost in efficiency based on benchmark tests.

AI Trap Camera — **Nagaland, INDIA**
Bachelor's Course Project(Machine Learning) — *Dec 2020 – June 2021*
- Constructed an object detection program capable of identifying a wide range of objects, including humans, animals, and vehicles, using google's open image dataset of 9 million images.
- Conducted experiments with various object detection techniques and ultimately selected the YOLOv4 method to achieve 98% accuracy.

PERSONAL PROJECTS

Portfolio Website (React) — **Baltimore, MD**
Self-Paced — *Dec 2022*
- Invested 50+ hours over 3 days on a single-page website using React enforcing the latest react practices.
- Used the React icon and emailjs libraries to enhance the website's design and functionality.
- Implemented responsive design using CSS media queries for compatibility across devices.

Spotify clone (React) — **Hyderabad, INDIA**
Self-Paced — *Aug 2021*
- Engineered a Spotify clone using Hooks, and Context API, resulting in a 50% increase in page load speed.
- Integrated the Spotify API to leverage features like searching for over 70 million songs, creating and managing playlists, and playing music.

Predicting Hospital Readmission for Patients with Diabetes — **Hyderabad, INDIA**
Training and Intern under Smart Bridge Educational Services Pvt. Ltd — *Dec 2018 – Jan 2019*
- Explored a hospital readmission rate forecasting web interface utilizing Machine Learning concepts and IBM's technology, and discovered a 20% reduction in readmission rates among diabetic patients.

SKILLS & INTERESTS

Programming Languages: C | C++ | Python | C# | Shell Scripting | Javascript

Web Development: HTML | CSS | Bootstrap | React | DOM | Django | Flask

Version Control: GIT | GITHUB

Database Management: MySQL | Mongo DB

DevOps Tools: Jenkins | Docker | Kubernetes

Cloud Services: AWS

Interests: Chess| Table Tennis| FPS Games| Science and technology enthusiast