

SAI SAATHVIK DOMALA



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EDUCATION

Indiana University, Bloomington, Indiana

Aug 2021 - May 2023

Masters of Science in Data Science (Big Data Specialization)

GPA - 3.67 / 4.00

Relevant Coursework: Artificial Intelligence, Data Mining, Machine Learning in Signal Processing, Data Visualization, Statistics, Network Science

Vellore Institute of Technology, India

Jul 2017 - May 2021

Bachelor's in Computer Science & Engineering

GPA - 3.81 / 4.00

TECHNICAL SKILLS

Languages and Tools:

Python, R, Java, C/C++, SQL, Excel, GIT

Libraries:

NumPy, Pandas, Scikit-learn, Tensorflow, Keras, NLTK, OpenCV, BeautifulSoup

Frameworks and Databases:

Django, AWS, PostgreSQL, MongoDB, SQLite3, Apache Solr, Hadoop, Streamlit

Data Visualization:

Matplotlib, Seaborn, Plotly, Bokeh, Altair, Folium, ggplot2

WORK EXPERIENCE

Data Science Intern, AddaCorner, Bangalore, India

Dec 2020 – Jun 2021

- Architected an ETL pipeline for vehicles and real estate into a **PostgreSQL DB** to develop resale valuation models using **XGBoost** with **92% accuracy**.
- Designed an interactive geovisualization dashboard with **Dash(Plotly)** achieving a **45% increase** in web traffic.
- Collaborated with the DevOps team to build a **Django**-based product webpage for advertising **3 million** assets.
- Performed **A/B testing** on a **Solr**-based negotiating AI chatbot to enhance customer experience and performance.

Machine Learning Intern, Foxmula, Bangalore, India

Jun 2020 – Sep 2020

- Improved accuracy of the OCR module for the handwritten autograder by **22%** using Deep Columnar CNN.
- Performed customer segmentation with **RFM** and **K-means** for the marketing team bringing **6k** new subscriptions.

Co-Founder, Anaaj, Vellore, India

Nov 2019 – Mar 2020

- Launched a **Smart Agriculture System** to recommend optimal crop and fertilizer using **Support Vector Machines** boosting farm revenue by **18%**.
- Designed an Image-based Disease detection model with **99% accuracy** using **ResNet**.
- Incorporated a Grain Storage Tracker to provide live-feed from **Arduino** sensors on mobile devices with **IFTTT**.

PROJECTS

NCAA to NBA- Draft Success Rate

Sep 2021- Nov 2021

- Devised a **novel technique** to evaluate a player's fit in a team by superimposing radar charts with **Bokeh** and suggested overall improvements per player.
- Trained a **Gradient Boost Classifier** to identify potential busts, All-Star, and Hall of Fame prospects.
- Redrafted the 2019 NBA class by analyzing draft trends over the years to improve player selection accuracy.

Automated AI-based Trading System

Apr 2021 - Jun 2021

- Fetches real-time stock data to forecast market value of shares using **ARIMA** with a **0.97 precision score**.
- Deployed the model on **AWS lambda** to perform automated trading of assets by bots on **Robinhood** and integrated a monitoring system on **Telegram**.

Detecting Depression from tweets using NLP

Oct 2019 - Dec 2020

- Built a **Streamlit** web app to detect depression over twitter data exports stored in **SQLite3** achieving a **0.9 F1-score**.
- Performed a supervised learning comparative study using **Naive Bayes**, **Logistic Regression** and **SGDClassifier**.

CLUBS AND ACTIVITIES

• **Professional Development Officer**, Data Science Club, *Indiana University*

May 2021- Dec 2021

• **Technical Fest Head**, GraVITas'20 , *Vellore Institute of Technology*

Apr 2020 - Nov 2020

• **Organizer**, VIT Sports Club, *Vellore Institute of Technology*

Nov 2019 - May 2020