

# Aman Satya

9986428963 | satyaaman97@gmail.com | Website: satyaaman97.github.io

## EDUCATION

### University of Colorado Boulder

Aug. 2019 – May 2021

*Masters of Science in Computer Science*

*Specialization: Intelligent Systems, Boulder, CO*

- **Key Courses:** Machine Learning, Data Mining, Natural Language Processing, Probability in Computer Science, Neural Nets and Deep Learning

### BMS College of Engineering

May. 2019

*Bachelors of Engineering in Computer Science*

*Bengaluru, India*

## TECHNICAL SKILLS

**Languages:** Python, Java, Scala, SQL, C, JavaScript, HTML/CSS, R

**Frameworks:** Apache Spark, Pyspark, AWS EMR, AWS EC2, Kafka, Hadoop, Flask

**Developer Tools:** Airflow, AWS DynamoDB, Cassandra, Redis, Git, Docker

**Libraries:** Scikit-learn, Pandas, NumPy, Tensorflow, Keras, PyTorch, Matplotlib, Seaborn

## EXPERIENCE

### Network 18

Aug 2022 - Present

*Software Development Engineer-1*

*Noida, India*

- Working on POC of aggregating user footprints over Network 18 news websites using Segment by Twilio tool and storing the aggregated data to datalake. ETL pipelines will be built on top of datalake for various business use cases. Working on one of the use cases of building and designing a recommendation system for improving user retention and time spent on the Network 18 news websites. Tech Stack: Segment by Twilio, Python, Pyspark, LSTM, Keras

### ZEE5

July 2021 - Aug 2022

*Software Development Engineer*

*Bangalore, India*

- Built ETL pipelines for Customer Data enrichment Platform and developed data pipelines for audience creation, used for Ad campaigns. Automated work flow of spark jobs using Airflow. Building and maintenance of in house data pipelines for Content Management System data. Aggregating impression and click data and developed response structure of it. Tech Stack: Python, Scala, Pyspark, Apache Spark, AWS, Airflow, Cassandra, Kafka.

### Times Club

June. 2020 - Aug. 2020

*Data Scientist Intern*

*Redwood City, CA, USA*

- Developed a ranking model using scikit-learn Python library for prioritizing merchant-onboarding on Credit Card bills payments app to increase user retention. Stack: Python, Excel, Scikit library.

### University of Colorado Boulder

Aug 2019- May 2021

*Graduate Teaching Assistant*

*Boulder, CO, USA*

- Assisted convening professors with lecturing, administrative tasks, grading, and office hours for the courses like Intro to Data Science, Cognitive Science, Machine Learning.

### Lumata Digital

June. 2017 - July. 2017

*Software Engineer Intern*

*Noida, India*

- Developed a sentiment classification of social media posts to determine user's views towards brands. Used Convolutional Neural Network on Tensorflow to classify posts into sentiment buckets.

## PROJECTS

### Stock Trading Interface using data from Reddit:

Developed a stock trading web application which enables user to trade on the basis of sentiments of live streaming textual data coming from /r/WallStreetBets using Reddit API. Stack: DynamoDB, Kubernetes, Kafka and React

### Class imbalance problem in image classification:

Evaluated and resolved class imbalance problem in German Traffic Sign Image Data Sets via Borderline SMOTE oversampling technique, thereby increasing test data accuracy under ROC-AUC curve from 91.8

### Fake News Detection With Enriched Attributes Using NLP:

Synthesized a new fake news detection model by adding new attributes of Click-baitness and Content Similarity into existing LSTM model using Keras Library; Resulted in improvement of 0.1% in accuracy