

Aman Satya

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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, ReactJS, 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

ZEE5

July 2021 - Present

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.

Status Solutions

Aug 2020 - May 2021

Research Staff

Westerville, OH, USA

- Developed an algorithm to identify patterns leading to PTSD. Created data pipeline and underlying features using cluster algorithms via scikit-learn Python library thereby reducing model run-time by 15%; Built model visualizations using Scikit and Seaborn Python library

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 by 4%. 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, achieved accuracy of 96%

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