

Samanth Reddy Karra

☎ (+1) 732-293-7671 | ✉ samanthreddy009@gmail.com | 🏠 samanthreddy007.github.io | 🌐 samanthreddy

Experience

John Hancock

Boston, MA

ASSOCIATE DATA SCIENTIST

Jun. 2020 - present

- Created and presented models for reducing Long Term Care calls, thereby achieving a 20% reduction in costs.
- Worked as a team of 3 to minimize the transfer/repeat calls across all the business units using statistical analysis and ML algorithms.

Nokia Bell Labs

Murray Hill, NJ

DATA SCIENCE COOP

Oct. 2019 - Dec 2019

- Developed an NLP text mining model to cluster 5G encrypted data that contains personal information identifiers into different categories.
- Improved data encryption efficiency by 40% by using clustering techniques

State Street

Princeton, NJ

SOFTWARE ENGINEERING INTERN

Jun. 2019 - Sep. 2019

- Developed a TimeSeries model as a team of 4, for predicting the price movement of the stocks using news and metadata in Verus App.
- Implemented clustering algorithms on the news articles (in MongoDB) to identify the reason for the fluctuations for more than 500 companies with an increase in the Daily Active Users by 15% and retention rate by 10%

Samsung Research

Noida, India

SOFTWARE ENGINEER (ML)

Jun. 2017 - Aug. 2018

- Led the development of a contextual awareness engine that recommends songs in Samsung Music Player App based on time, weather, user data, metadata, etc with an increase in retention rate by 5%
- Contributed to a project to detect the human voice and reduce the audio levels in earphones when the user is listening to music.

Indian Institute of Science

Bangalore, India

RESEARCH INTERN

Jun. 2015 - Dec. 2015

- Developed an Image caption generating model using a recurrent neural network like LSTM to turn the labels into a coherent sentence.

Skills

Languages Python, C/C++, Scala, R, MATLAB, HTML, CSS

Databases MySQL, SQL Server, PostgreSQL, MongoDB

Big Data Hadoop, HDFS, MapReduce, Spark, AWS (EC2,S3,RDS)

Soft Skills Critical Thinking, Effective Communication, Problem Solving

Education

Rutgers University

New Brunswick, NJ

MASTER OF SCIENCE IN COMPUTER SCIENCE - 4.0/4.0

Aug 2018 - May 2020

Indian Institute of Technology

Guwahati, India

BACHELORS OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION - 3.85/4.0

Aug 2013 - May 2017

Projects

SQL Query Engine

- Built a Web App for running SQL and Mongo queries and visualizing the results.
- The app is connected to AWS RDS and Redshift using JDBC connectivity and used AWS S3 to store the backend data.

Amazon Movie and TV Shows Recommendation

- Developed a Web App that recommends Movie and TV shows for each user based on his previous purchases and his rating for each one.
- Built an ensemble model using content-based and collaborative filtering techniques like KNN, Matrix Factorization, DeepFM, Probabilistic MF, SVD with Precision 0.9, and Recall 0.85.

Predicting Customer's future orders in Instacart

- Developed a Web App that predicts the products in the user's next order for nearly 200,000 Instacart users and 3 million grocery orders.

Predicting Insurance Claim of the Customer

- Built a Classifier that predicts whether a customer will initiate an auto insurance claim in the following year.
- Tackled the imbalance in the dataset with sampling techniques. Used 3 layers in stacking to improve the F1-score to 0.93.

Activities & Awards

- Worked as a Teaching Assistant for Databases and Data Structures courses of 40 students each (Aug 2019-May 2020)
- Awarded "Outstanding Performer Award" for significant contributions and consistent performance throughout the year (Samsung)