Sukanya Saha

MS student at CU Boulder • CSRMP Aprentice at Google • Ex Software Engineer at HSBC

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Work experience

Google, USA - Computer Science Research Mentorship Program Apprentice: Sep 2021 - Jan 2022

- Receiving mentorship from a Googler to pursue computing research on bias aware and privacy-preserving machine learning
- Personalized stylish recommender bot using natural language processing, generative models, and computer vision

HSBC, India — Software Engineer - Data: Mar 2019 - Dec 2020

- Improved click through rate by 5% of personalised advertisement by building digital customer segmentation model using unsupervised machine learning
- Built a model to predict credit card utilization to generate offers
- Developed a web application using topic modeling with customers' preferences and sentiments to compare mobile banking apps
- Acheived 91% accuracy on customer return to purchase ML model with efficient data collection
- Developed a web-based FAQs Chabot using Natural Language Processing
- Gained 81% accuracy on customer attrition ML model with high dimensional data to decrease customer churn

Cognizant, India — Software Engineer: Aug 2016 - Feb 2019

- Increased Recall by 5% on customer re-purchase predictive model for Marketing Analytics team
- Built Resume Screening application using OCR to decrease average screening time from 1 week to 2 days
- Streamlined and simplified high volume customers' onboard validation process using Text Summarization
- Developed CCTV surveillance in ATMs using convolution neural network and activity recognition to reduce fraud
- Built Server Failure Prediction model on a network using anomaly detection to enhance fault tolerance

Education

University of Colorado Boulder, US - MS in Computer Science: Jan 2021 - Dec 2022

- E-Commerce application with distributed backend services using Python, Flask, JavaScript, gRPC, RAFT Protocol, Atomic broadcast, and Google Cloud Platform
- Enhancing Privacy in Federated machine learning using differential privacy

\P Awards, Extra-Curricular and Certification

- Ranked 65th in Indian Engineering Olympiad
- Conducted STEM-ed training for differently-abled children in the Indian Institute of Mother and Child NGO
- Certification on Deep Learning and Generative Adversarial Networks Specialization by deeplearning.ai

Skillset (Proficient)

Programming languages

Python

ML libraries

numpy scikit-learn

matplotlib pandas

plotly PyTorch

TensorFlow Keras

Computer Vision libraries

(OpenCV)

NLP libraries

spaCy Gensim

NLTK

Web automation tools

Beautiful Soup

Selenium)

Web frameworks

Flask

Databases

MySQL BigQuery

MongoDB

MS SQL Server

Tools

Git Jupyter notebook

GCP

Skillset (Intermediate)

Programming languages

Golang Scala C
JavaScript Java

Web technologies

gRPC REST React
HTML CSS

Tools

Webot DialogFlow