

Sukanya Saha

MS student @CU Boulder • Recipient of CSRMP @Google • SDE Intern @ Intel

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+1 720 757 2958 • Santa Clara, California • Looking for New Grad roles • Open to in-person/remote locations

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Education

University of Colorado Boulder, Master of Science in Computer Science: Jan 2021 - Dec 2022, GPA 3.9, Coursework - Distributed Systems, Computer Vision, Advanced Robotics, Linear Programming, Big Data Architecture

West Bengal University of Technology, Bachelor of Technology in Electronics & Instrumentation Engineering: Aug 2012 - Jul 2016, GPA 3.9



Work Experience

Intel, USA — Software Engineering Intern, Machine Learning: May 2022 - Dec 2022

- Developed a **computer vision and deep learning based anomalies detection** model to help design and test standard cell libraries(building blocks of integrated circuits) **reducing the test time from two months to 2 hours**

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

- Received mentorship to pursue computing research on MS independent study project on **Virtual stylist**, a platform to try clothes online using generative models and computer vision

University of Colorado Boulder, USA — Teaching Assistant: Jan 2021 - Aug 2022

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

- Outperformed existing **click-through rate** (proportional to revenue) by **5% on personalized advertisement by digital customer segmentation model** using unsupervised machine learning
- Developed an application to **compare banking apps** using **natural language processing** and customer feedback that helped to prioritize feature development, bug fixing, choose criteria for A/B testing
- Forecasted **customer attrition with 81% accuracy** which decreased customer churn and stopped the loss of revenue

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

- Automated **Resume Screening process using OCR** to decrease average shortlisting time from **1 week to 2 days**
- Increased Recall by **5% on customer return to purchase predictive** model for Marketing Analytics team using supervised machine learning



Awards and Extra-Curricular

- Volunteered to teach differently-abled children in the **Indian Institute of Mother and Child** NGO
- Selected for Capital One Software Engineering Summit by building an **interactive interface** for national parks
- Access and Inclusion Mentor**- Mentored underrepresented undergrads with engineering curricula



Academic Projects

- E-Commerce** application with distributed backend services using Python, Flask, gRPC, RAFT Protocol and Google Cloud Platform
- Tesla 3 simulation on **Webots** with implementation of **SLAM**
- Enhancing Privacy in **Federated machine learning** using **differential privacy**

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 **Webot**

Web technologies

gRPC **REST** **React**

HTML **CSS**