

# 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 3.89

**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)

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

- Received mentorship from a Googler to pursue computing research on MS independent study project on Virtual stylist that lets you try clothes online using generative models and computer vision

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

- Deliver recitation on programming languages, functional programming, lambda functions, etc. to a class of 300 undergrad students and help them to debug code

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

- Outperformed existing **click-through rate** which is proportional to revenue generation by **5% on personalized advertisement by digital customer segmentation model** using unsupervised machine learning
- Developed a web application using **natural language processing and topic modeling** with customers' preferences and sentiments to **compare mobile banking apps** 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

- Increased Recall by **5% on customer return to purchase predictive** model for Marketing Analytics team using supervised machine learning
- Automated **Resume Screening process using OCR** to decrease average shortlisting time from **1 week to 2 days**
- Architected **Server Failure Prediction** model on a network using anomaly detection to enhance fault tolerance

## 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**

## Academic Projects

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- 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**
- Built a travel app to plan itinerary using python, flask, android studio

## Activities

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**Capital One, USA — Software Engineering Summitee:** Dec 2021 - Jan 2022

- Implemented a **National Park Activity Finder app** that allows users to select activities and find corresponding national parks using React and National Parks API and Netlify
- Received training workshops on React and Express.js
- Participated in hackathons and created an app that recommends the best local establishments using Google APIs, SwiftUI and MapKit to display best offerings on a map in nearby areas

**University of Colorado Boulder, USA — Access and Inclusion Mentor:** Aug 2021 - July 2022

- Influence and Inspire undergraduate students from minority groups about the engineering curricula, study strategies, and the overall culture of the engineering college

## Coursework

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Distributed Systems, Natural Language Processing, Computer Vision, Advanced Robotics, Linear Programming, Big Data Architecture

## Awards and Extra-Curricular

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- Awarded for being an exceptional employee in Cognizant and HSBC
- Ranked **65th in Indian Engineering Olympiad for Electronics and Instrumentation Engineering Students**
- Academic excellence award, Future Institute of Engineering and Management
- Conducted seminar on applications of machine learning in association with the Computer Society of India
- Conducted training sessions for differently-abled children in the **Indian Institute of Mother and Child** NGO
- Influenced young children for STEM education with **Adore India** NGO

## Certifications

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- Coursera **Machine Learning** by Stanford University
- **Deep Learning Specialization** by deeplearning.ai
- **Generative Adversarial Networks** Specialization by deeplearning.ai
- **Reinforcement Learning Specialization** by University of Alberta & Alberta Machine Intelligence Institute