

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

 [sukanyasaha007](#)

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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

- 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

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

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

Awards and Extra-Curricular

- 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

- 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