

Sukanya Saha

MS student @CU Boulder • Recipient of CSRRMP @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

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**

Coursework: Distributed Systems, Natural Language Processing, 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

Google, USA - Computer Science Research Mentorship Program 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

Work Experience

Intel - Software Engineer -Machine Learning Intern: 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)

University of Colorado Boulder, USA - Graduate Teaching Assistant, Principles of Programming Languages: Jan 2021 - Present

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

HSBC, India — Machine Learning Engineer: 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

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**

Work Experience

Cognizant, India — Data Scientist: 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
- Developed **CCTV surveillance in ATMs** using pre-trained convolution neural network architecture VGGNET and activity recognition to reduce fraud
- Architected **Server Failure Prediction** model on a network using anomaly detection to enhance fault tolerance

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