

# Sukanya Saha

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## Skilled in Robotics, Machine Learning and Computer Vision

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Boulder, CO 80302

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### Skills

Statistical Machine Learning and Deep Learning algorithms, Generative models, Reinforcement learning, Computer Vision, Robotics

Python, Scala, C, Spark, Functional Programming, CUDA

Pytorch, Tensorflow, Scikit Learn, Pandas, NumPy, Matplotlib, Plotly, OpenCV, ROS, Webot

Web Scraping- Selenium, Scrapy, BeautifulSoup

SQL, HiveQL, SAS, BigQuery, Amazon Web Services, Google Cloud Platform, Docker, Git, Bitbucket

Soft Skills- Storytelling, presentation, independent research, collaboration and problem solving

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### Education

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#### University of Colorado Boulder, Boulder— MS in Computer Science: GPA 3.85

Jan, 2021 - expected in Dec, 2022

Course Work- Distributed Systems, Natural Language Processing, Computer Vision, Robotics

Currently pursuing research on human inspired robot learning using generative models and reinforcement learning

E-Commerce Application using Python, Google RPC, RAFT Protocol, Atomic broadcast, Google cloud

Enhancing Privacy in Federated Machine Learning using differential privacy

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### Experience

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#### Teaching Assistant, University of Colorado at Boulder : Jan, 2021 - Current

Teaching, grading, creating materials for Principle of Programming languages class of 80 students

#### Assistant Manager- Data Science, HSBC : Mar, 2019 - Dec, 2020

Customer Segmentation Model based on demographics, expenditure, etc.

Banking apps comparison using topic modeling to analyze customers preferences and sentiments and its Flask Based Web Application

FAQs Chabot using Natural Language Processing and its UI using Flask

Developed model on customer attrition in high dimensional data with 81% accuracy

#### Data Scientist, Cognizant Technology Solutions : August, 2016 - Feb, 2019

Resume Screening using Optical Character Recognition, Text Summarization to save resource for hiring

CCTV surveillance in ATMs using convolution neural network and activity recognition to reduce fraud

Server Failure Prediction on a network using anomaly detection

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### Awards and Extra- Curricular

"Above and Beyond" in Cognizant Technology Solutions, "Client's champion" in HSB, Ranked 65th in Indian Engineering Olympiad, Academic excellence awards

Conducted Seminar in Department of Information Technology, Govt. of India in association with the Computer Society of India Education, training sessions for differently-abled children in Indian Institute of Mother and Child NGO