Sukanya Saha

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Skills

- Programming Languages- Python, C, Scala
- Machine Learning and Deep Learning algorithms
- Machine Learning Libraries - Scikit Learn, Pandas, NumPy, H2O, Dask,
- Visualization Libraries- Matplotlib, Seaborn, Plotly
- Deep Learning Libraries- Tensorflow, Pytorch, Keras
- Web Scraping- Selenium, Scrapy, Beautiful Soup
- Web Technologies – Flask, HTML, CSS, Javascript
- Scala, Spark, Functional Programing
- SQL, HiveQL, SAS
- Amazon Web Services, GCP
- Tools And Version Control - Jupyter Notebooks, Spyder, Docker, Visual Studio Code, R Studio, Git And Bitbucket

Education

University of Colorado Boulder, Boulder— MS in Computer Science: GPA 3.85   *Jan, 2021 - expected in Dec, 2022*

- Completed coursework in Distributed Systems, and Natural Language Processing
- E-Commerce Application using Python, Google-RPC, RAFT Protocol, Atomic broadcast, Google cloud- implemented buyer and seller interfaces in GCP in using load balancer, Customer database replication was handled using Atomic Broadcast protocol, Product database leader election was handled employing RAFT protocol
- Enhancing Privacy in Federated Machine Learning using differential privacy

West Bengal University of Technology, India—

Bachelor of Technology in Electronics and Instrumentation Engineering: GPA 9/10   *August, 2012 - July, 2016*

Experience

Teaching Assistant, University of Colorado at Boulder   *Jan, 2021 – Current*

- Conducted recitations, graded students, and held office hours for the section of 80 students
- Created study materials for recitation and homework

Assistant Manager- Data Science, HSBC   *Mar, 2019 – Dec, 2020*

- Customer Segmentation Model based on demographics, expenditure etc.
- Banking apps comparison using customer reviews and topic modeling to help banks stay updated of customers preferences and sentiments among other competitive banking apps available.
- Predict credit card utilization of customers to generate offers to increase credit limits.
- Flask Based Web Application to Compare Banking apps according to user location using Flask, HTML, CSS, JavaScript.
- FAQs Chabot using Natural Language Processing and its UI using Flask, Built Customer Return to Purchase model with 91% Accuracy and scaled up to run the model on a weekly basis
- 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 help organizations save significant amounts on resource hiring
- CCTV surveillance in ATMs using convolution neural network and activity recognition to reduce criminal activities and fraud in ATMs.
- Monthly updated model to predict customer future value and customer life cycle value with 85% performance on highly unbalanced data
- Detected failing servers on a network from the measure of throughput and latency of response using isolation forest on data points and identifying anomalies in servers with a threshold based approach.

Recognition and Extra-Curricular

- Honored with the "Above and Beyond" award in Cognizant Technology Solutions.
- Ranked 65th (all india rank) in Indian Engineering Olympiad.
- Honored for being the department topper in undergrad in multiple semesters.
- Held Seminar organized by the Department of Information Technology, Govt. Of India in association with the Computer Society of India Education.
- Conducted a 40 days training session with differently-abled children in Indian Institute of Mother and Child.