

# Anushka Singh

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## EDUCATION

**University of Southern California**, Los Angeles, California **December 2020 (Expected)**  
*Master of Science in Computer Science* | Specialization: Data Science | GPA - 3.67/4  
Coursework: Deep Learning, Machine Learning, NLP, Data Mining, Web Technologies, Algorithms, Databases

**Usha Mittal Institute of Technology**, S.N.D.T Women's University, Mumbai **June 2018**  
*Bachelor of Technology in Computer Science and Technology* | GPA - 5.51/6  
Honors: Recipient of a gold medal for scoring highest marks in CS department.

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## SKILLS

- *Languages*: Python, Javascript, Java, SAP ABAP
  - *Data viz.*: Tableau, matplotlib, Seaborn
  - *HCM*: Salesforce, SuccessFactors, Plateau
  - *App/Web Dev*: Android Studio, Node JS, HTML+CSS
  - *DBMS*: MySQL, Oracle, Informatica, SAP HANA
  - *Big Data*: Spark, AWS, GCP
  - *Machine Learning*: Amazon SageMaker, NeurophStudio, Kore.ai, Tensorflow, Keras, BERT, Sklearn
  - *Opensource Dev*: Openstack (Octavia), IRC, Gerrit
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## WORK EXPERIENCE

- Openstack SDE Intern | Verizon Media - Sunnyvale, CA** **Summer 2020**
- Contributed to the open source Openstack Octavia Project by adding delta metrics like bytes in and out, active and total connections, request errors etc. to indicate load balancer health.
  - Wrote additional driver layers in Python to send fetched data to dashboards so users could access it easily both upstream and downstream and wrote unit tests using mocks to test the code. (<https://bit.ly/2Pw6kPV>)
- Instructor | AWS DevDays with SAP - Culver City, CA** **Fall 2019**
- Mentored a diverse group of 70 data science enthusiasts in building a Machine Learning model using Amazon SageMaker and deploying it on SAP HANA for faster consumption to predict the iris type of flower petals.
  - Collaborated with SAP and Amazon employees to debug and fix issues with the SageMaker + HANA tutorial before its final draft was released.
  - Awarded the 2019 Women in Big Data Instructor of the Year for the efforts in making the seminar successful.
- Marketing Intern | Viterbi Admissions and Student Engagement, USC - Los Angeles, CA** **Summer 2019**
- Established a connection using Zapier for entries from "Contact Us" page on USC website to flow to Salesforce automatically and designed accessible and readable website pages for the Viterbi Masters' Program.
  - Created interactive reports using Tableau for 2 tasks - Student applicant data to analyze average GPA of admitted vs applied students and CPT reports of students to analyze placement statistics.
- Executive Associate | Colgate-Palmolive, Colgate Global Business Services - Mumbai, India** **Fall 2018**
- Created a chatbot using Kore.ai, GCP to automate unlocking of SAP IDs and resetting passwords.
  - Developed a SAP ABAP script to translate HR and payroll delta data of 35000 employees, from CSV to XML format.
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## PROJECTS

- World Karaoke - Open Sesame Inc. (<https://bit.ly/3ic0QpK>)** **Summer 2020**
- Developed a Social Keyword Detection Model for words like 'Sing', 'Share', 'Choose', 'Duet', 'Subscribe' using a pre trained Wavenet model with Soundex and edit distance for phonetic based similarity.
  - Used Mechanical Turk to collect data for accurate model testing and got an accuracy of 78% across all words.
- Predict Future Sales - Kaggle Competition (<https://bit.ly/33GMl9L>)** **Spring 2020**
- Created a robust model to predict the total sales for the next month for every product and store from a time series dataset with 22000 products in 60 stores of a Russian Software Firm.
  - Used LGBM with Bayesian Optimization based hyper parameter tuning to get an RMSE of 0.858 and rank 17 amongst 8015 teams (top 0.002%) on the leaderboard.
- SentiGO - Streaming Sentiment Analysis on the Go using Deep Neural Nets (<https://bit.ly/31viwvB>)** **Fall 2019**
- Trained and tested 3 different models - ANN, LSTM and CNN on the Yelp dataset for Streaming Sentiment Analysis. Observed a latency of less than a second for all models and max accuracy of 86% by the LSTM and CNN models.
  - Visually showed the polarity of the review as the user types it in based on the predict model that is called in the backend every time a punctuation or space bar is hit.
- Citrus App (<https://bit.ly/2Zj5Bo9>)** **Spring 2019**
- Built Citrus using HTML5 and CSS for front end and Flask for back end - an app through which user can pay for a 2 wheeler ride by completing a simple muscle strengthening activity.
  - Implemented a pre trained model from the OpenPose library for human movement detection and then formulated an algorithm to determine if the user successfully completed the challenge.
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## ACHIEVEMENTS & LEADERSHIP

- Top 5 in **LA Hacks 2019** held at UCLA - a part of Major League Hacking.
- Assistant Project Manager, Adaptive Production, Entertainment Technology Center@USC School of Cinematic Arts.
- **Women in Big Data Lead**, So-Cal Chapter at Viterbi School of Engineering at USC.
- Received Special Mention Award at the first **Blockathon** held at USC.