

SAI CHAITANYA TOLEM

🏠 San Jose, CA, 95112 📞 +1 (669)-232-7394 ✉ chaitanyatolem@gmail.com
<https://www.linkedin.com/in/sai-chaitanya-tolem> | Website: <https://chaitanyaa.github.io>

EDUCATION

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| • M.S. in Data Analytics , San Jose State University, California, USA | GPA: 3.7/4.0 | Aug 2018–May 2020 |
| • B.E. in Computer Science , Osmania University | GPA: 3.8/4.0 | Sep 2012–Jun 2016 |
| • Apprenticeship in Software Engineering , NIIT Academy | GPA: 3.5/4.0 | July 2013–Aug 2015 |

TECHNICAL SKILLS

- **Languages and Frameworks:** C, C++, JAVA, Python, SQL, SAP-ABAP, NoSQL, RESTful API, Hadoop, NumPy, Pandas, TensorFlow, Scikit-learn, Matplotlib, Seaborn, J2EE, Flask, Spark, Kafka, ETL, Hive, Tableau, Cassandra, Cloud-GCP, Azure, AWS
- **Areas of Expertise/Interests:** Data Structures & Algorithms, Big Data, AI, Machine Learning, Data Science & Engineering

WORK EXPERIENCE

Internship, Tesla, Palo Alto, CA **Jan 2020–May 2020**

- Built an end-to-end data pipeline to create KPI dashboards for Tesla energy products fleet.
- Automated selection of pdf files from hundreds of thousands of shared folders and copied over to a single folder.
- Technology Stack – Hadoop, Hive, HBase, Airflow, Spark, Presto, T-SQL, Python, Tableau.

Teaching Assistant, San Jose State University, CA **Feb 2019–May 2020**

- Evaluated student assignments and provided detailed feedback resulting in 10% increase in class average grade.
- Tutored students one-on-one during weekly office hours to ensure 100% student confidence in completing assignments.
- Courses – Databases and Data Warehousing, Python for Statistical Programming, Big Data Technologies.

Applications Developer, CA Technologies (now Broadcom Inc) **Jun 2016–Aug 2018**

- Automated customer invoicing process resulted in saving 26% of business user's time.
- Converted services and education contracts data of a \$635 million USD company acquisition.
- Developed complex interfaces to transfer more than 1.2 million billings data to a 3rd party application.
- Programmed 16+ Ad-hoc reports by ingesting data from relational tables for business users to analyze & derive insights.

ACADEMIC PROJECTS

YelpSuggest - Recommendation Engine (ML, Cloud, Big Data, Web Application) **Sep 2019–Nov 2019**

- Deployed a machine learning application in AWS cloud by processing 1 million yelp reviews.
- Created a flask website to display restaurant recommendations from users and business perspectives.
- Technology Stack – Python, SQL, PySpark, Flask, HTML, CSS, Jupyter Notebook, AWS S3, EMR, EC2.

Binary Classification in Cifar-100 Image Dataset (Machine Learning, Deep Learning) **Apr 2019–May 2019**

- Improved CNN model with hyper parameters tuning and classified images not present in training set.
- Visualized performance of supervised classification algorithms Logistic, Random Forest, SVM, KNN, Naïve Bayes.
- Technology Stack – Python, Shell Script, Keras with TensorFlow Backend, Tableau, PySpark.

Analysis of Paris Airbnb Dataset (Data Visualization) **Mar 2019–Apr 2019**

- Visualized the data in Tableau to determine where, what and when to list a property in Paris to maximize host's ROI.
- Collaborated in a team of 5 to improve graphs by following design principles and presented the analysis in a YouTube video.
- Technology Stack – Tableau, Python, Seaborn, Matplotlib.

Streaming Analytics on Traffic Sensors (Big Data, Cloud) **Nov 2018–Dec 2018**

- Simulated traffic sensors data to stream 1-hour data in 1-min intervals for stream processing.
- Spun up VM instances in cloud and used Google Data Analytics products, from ingesting to pipelining to store/visualize.
- Technology Stack – Linux, Shell Script, Python, GCP PubSub, Dataflow, BigQuery, Data Studio.

Marking Student Short Answers with NLP Techniques (Web Application, Cloud) **Feb 2016–Apr 2016**

- Deployed web app on Azure cloud and compiled app to mobile-ready using Bootstrap Framework.
- Explored Natural Language Processing techniques to identify variations in writing styles and for scoring answers.
- Technology Stack – SQL, Advanced JAVA, JSP, HTML5, CSS3, JavaScript, Bootstrap, NLP, Azure Cloud.

CERTIFICATIONS & OTHER ACHIEVEMENTS

- **Data Engineering** on Google Cloud Platform, a 5-course specialization by Google Cloud on Coursera **Nov 2018–Jan 2019**
- Certified as Excellent in C and C++ programming course conducted through an exam hosted by NIIT **Jun 2012–Jul 2012**
- Founding member of the Corporate Culture Club for our Business Unit to organize Employee Engagement Activities