

## SUMMARY

- Strong track record of applying ML end-to-end from defining the problem, scraping, crowdsourcing & annotating the right data, research state-of-the-art techniques/models to solve the problem, and shipping production-ready ML systems.
- Classification, regression, unsupervised learning problems on large / small / imbalanced / structured / unstructured datasets.
- Collaborate with engineering, product management, and business stakeholders to ship impactful consumer & enterprise features.
- Technical: Python, R, SQL, Hive, Spark, Docker, Kubernetes, Tableau, ML frameworks (Sklearn, Tensorflow, Keras, Pytorch).

## WORK EXPERIENCE

**Petuum Inc**, Sunnyvale, CA – Senior Software Engineer (NLP) Aug '19 – Present

- Architecting and implementing high-quality NLP models for multi-lingual structured/unstructured question answering.
- Reduced training time by 75x (from 8 hours to 4 minutes), improved accuracy by 20pp, scaled model serving and inference for concurrent usage and reduced infrastructure costs substantially.
- Lead, mentor and grow the ML engineering team to encourage innovation and implementation of state-of-the-art models.

**SAP Labs**, Conversational AI, Palo Alto, CA – ML Engineer March '17 – Aug '19

- End to end applied research, development, and deployment of machine learning models in the conversational AI domain.
- Projects include natural language understanding models for intent recognition, entity extraction, coreference resolution, closed domain question & answering on structured/unstructured text, and information retrieval systems.
- Communicating and collaborating with the product team, business stakeholders and engineers to ship features on the platform.
- Shipped features in production: Demo link - [pronoun resolution for dialog context management, text augmentation as a service](#).

**Concur**, Seattle, WA – Product Data Science Intern June '16 – March '17

- Built models to predict customer churn and proactively mitigate risks leading to \$5M in estimated lifetime revenue earnings.
- Partnered with the product team to identify key strategic focus areas for new feature development using NLP.
- Automated an end-to-end data pipeline for data extraction, preprocessing, mining, prediction and data visualization.

**Google Inc.**, Hyderabad, India – Associate Account Strategist May '14 – Aug '15

- Identified effective targeting and segmentation strategies for ad campaigns to maximize ROI for the customer.
- Developed dashboards and tools to provide insights for cross-functional partners to support data-driven decision making.

**Google Inc.**, Hyderabad, India – SMB Intern May '13 – July '13

- Developed robust metrics to inform strategy and measure the incremental impact of Ad campaigns.

## EDUCATION

**University of Washington**, Information School, Seattle, WA June '17

*Master of Science in Information Management -- Specialization in Data Science & ML. Relevant Coursework: Data Science, Machine Learning & Econometrics, Advance Data Visualization, Information Architecture, Data Ethics and privacy, Applied Social Statistics.*

**Osmania University**, Hyderabad, India June '14

*B.S. Computer Science and Engineering -- Relevant Coursework: Data Structures, Software Engineering, Database Management Systems, Artificial Intelligence, Data Mining, Information Security, Information Storage, and Management*

## ACADEMIC RESEARCH PROJECTS

**Data for Economic Development** - Improving access to Financial Institutions based on Mobile Cellular Data in Ghana (2016)

- Worked as a Research Assistant for Prof. Joshua Blumenstock to crunch terabyte-scale Call Detail Records data using Spark.
- Cleaning, anonymizing and visualizing data for enabling analysis of the socio-economic behavior of the population.

**Healthcare Cost and Utilization Project (HCUP)** - Fixed Effects Econometrics (2016)

- Worked with Prof. Benjamin Althouse on modeling relationships between vaccination uptake and hospitalization for WA state.
- Built fixed effects model in R for gauging the impact of vaccination within counties normalizing for demographic characteristics.