

Mridul Birla

SOFTWARE ENGINEER

Sunnyvale CA

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Education

Indiana University Bloomington

M.S IN COMPUTER SCIENCE

Bloomington, Indiana

2015 – 2017

Pune Institute of Computer Technology

B.E IN INFORMATION TECHNOLOGY

Pune, India

2008 – 2012

Summary

Currently Software Dev engineer at Yahoo! with a demonstrated history of working in the internet industry. My current work includes enhancing and improving the entity knowledge base. It primarily involves data mining and information extraction over Hadoop clusters by using Spark, Pig and Python. I am also involved creating end to end data pipelines for various usecases and improve current query understanding models. Interested in devising a better problem-solving method for challenging tasks, and learning new technologies and tools if the need arises.

Skills

Languages Python, C++, Java, SQL

Technologies Machine Learning, TensorFlow, Spark, Hive, SQL, Git, Pandas, Matplotlib, NLP, Hadoop, Kafka, Storm, Oozie, Docker

Work Experience

Yahoo!

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SOFTWARE DEV ENGINEER II

June 2017 - Present

- Developed components for the query understanding system and infrastructure using C++, Python, Perl for Query Linguistic Analysis Service Team at Yahoo! Search.
- Engineered features for feature transformations, offline studies for feature selection, online A/B testing.
- Built system for large scale data extraction, aggregation and analytic using Spark, Pig, Hive and Hadoop.
- Data Analysis for billions of click samples and users across Y! Search using Hadoop/Spark/Pig/Hive.
- Built ranking system pipeline for large scale sports entities from raw search logs and knowledge base.

Yahoo!

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INTERN II

May 2016 - August 2016

- Designed and implemented framework to ingest user search queries and process it using Storm, Kafka and HBase in Java.
- Created deep learning framework using TensorFlow to identify whether the image related to the trending term is similar to previous blocked images.

TIBCO Software INC

Pune, India

ASSOCIATE CONSULTANT

July 2012 - June 2015

- Engineered large scale big data enterprise software for clients such as Kroger, Esselor using Java, XML, NO-SQL and SQL databases.
- Won Rookie of Year award.

Projects

Part of Speech Tagger

ARTIFICIAL INTELLIGENCE

- Implemented a parts of speech tagger in python by using Brown corpus dataset. Applied Naive Inference, Gibbs (MCMC) sampling and Viterbi to predict the POS tagger for new sentences.

Twitter Geo Location Classifier

MACHINE LEARNING

- Implemented a twitter feed geo-location classifier using python and NLTK. Applied SVM, Multinomial Naive Bayes to classify incoming tweets into different U.S state.

Caption to Image Generation

COMPUTER VISION

- Creating a model that generates images from natural language descriptions using generative neural net models, specifically adversarial and recurrent neural network.