**Current Positon** —

**Google Brain** Mountain View

RESEARCH RESIDENT July 2017

**Education** 

**New York University** New York City

M.S. IN DATA SCIENCE - 3.87/4.0 Sept 2015 - May 2017

**Birla Institute of Technology and Science** 

Goa, India

B.E. IN MECHANICAL ENGINEERING - 8.62/10.0 Aug 2011 - May 2015

Open-source development \_\_\_\_\_

Scikit-garden

CO-CREATOR April 2017 - Present

• Support for Mondrian Forests and Quantile Regression Forests with a scikit-learn API

**Scikit-optimize** 

CO-CREATOR June 2016 - Present

• Supports Gaussian Process and Random Forest search for sequential model-based optimisation

Scikit-learn

**SymPy** 

CORE DEVELOPER 2013 - Present

• Co-mentor – Google Summer of Code 2016, Cython-fused types support

• Student - Google Summer of Code 2014, Improved speed and memory of linear models

**Apache Spark** Remote

GOOGLE SUMMER OF CODE 2015, STUDENT

· Improved parity of MLlib's PySpark API

GOOGLE SUMMER OF CODE 2013, STUDENT

May 2013 - Aug 2013

May 2015 - Aug 2015

Remote

• Improved symbolic differential equation solving support

Experience \_\_\_\_\_

**IBM Spark Technology Center** 

San Francisco

SOFTWARE ENGINEERING INTERN

RESEARCH ENGINEER, SCIKIT-LEARN

June 2016 - Sept 2016

July 2014 - Dec 2014

- · Improved support for distributed benchmarking and speed of MLlib's Random Forest implementation upto 10%
- Wrote a Python-API for Apache SystemML's MLContext using Py4j

Telecom ParisTech

- Implemented Birch, an online clustering algorithm as an alternative to KMeans
- Added support for Multinomial Logistic Regression

Projects \_\_\_\_\_

## **EmineT: A variational LSTM to generate rap**

INFERENCE AND REPRESENTATION Oct 2016 - Dec 2016

• Used a variational LSTM to generate rap-music with lyrics as additional input

## **Reading Comprehension**

NATURAL LANGUAGE UNDERSTANDING WITH DEEP LEARNING

Oct 2016 - Dec 2016

• Implemented variants of an attention-based Reader to do question answering on the Who-did-What dataset in tensorflow

## **Taxi-News**

 Big Data
 Feb 2016 - May 2016

• Analyzed the effect of taxi-related news events such as Uber-ban on yellow cab ridership

## **HitOrFlop**

BUSINESS ANALYTICS Oct 2015 - Dec 2015

• Find the features most determinant of a movie's success using pre-released data mined from iMDB