

Abhishek Sen

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SKILLS

Python • C++ • Java • Pandas
Hadoop • Hive • Pig • Spark, Scala
D3.js • Flask, Django • HTML, CSS

EDUCATION

GEORGIA TECH

MASTERS IN COMPUTER SCIENCE
Expected Dec 2016 | Atlanta, Georgia
Cum. GPA: 3.87/4.00

VJTI

BTECH, ELECTRONICS ENGINEERING
Grad. May 2013 | Mumbai, India
Cum. GPA: 9.6/10.0

TEACHING

Teaching Assistant to Dr. Charles Isbell
for CS 4641 - Undergraduate Machine
Learning at Georgia Tech.

LINKS

Github:// [abhishekpsen](https://github.com/abhishekpsen)
LinkedIn:// [abhishekpsen](#)

COURSEWORK

Big Data in Health Informatics •
Algorithms • Artificial Intelligence • Data
Visualization and Analytics • Mobile
Applications • Advanced Internet
Computing • Machine Learning for
Trading

AWARDS, HONORS

- 2nd rank among 400,000 candidates in State Engineering Joint Entrance
- 2nd rank among 501 students in University - Undergraduate education
- JN Tata Endowment Scholarship for Higher Education - 70 awardees across India

PUBLICATION

Automatic Music Clustering Using Audio
Attributes

EXPERIENCE

CREDIT SUISSE | SOFTWARE ENGINEER

July 2013 – June 2015 | Mumbai, India

Algorithmic Trading

- Developed Data Analytics tools used to monitor performance of various algorithms. (Python, C++)
- Wrote scripts to automate and streamline several critical data pre-processing tasks. (Python)

Program Trading

- Contributed enhancements and bug fixes to Webbroker, a web-based trading application. (Java, JSP, HTML)
- Implemented several new features in Mako, primary trading application for our traders. (C#, WPF)

TEXAS INSTRUMENTS | INTERN

Summer 2012 | Bangalore, India

- Wrote Capacitive Touch sensing libraries in C for the MSP430 microcontroller.
- Published a related application note.

PROJECTS

RECOMMENDING PHOTO FILTERS | PAPER | POSTER

Feb 2016 – Apr 2016 | Data Science Club @ Georgia Tech

- Collected metadata of 600,000 images using the Instagram API.
- Developed a Deep Learning based system to categorize images based on image content.
- Customized KNearest Neighbors Algorithm for recommending the best filter.

PREDICTING PATIENT MORTALITY IN ICU | PAPER | PRESENTATION

Feb 2016 – Apr 2016 | Big Data for Health Informatics @ Georgia Tech

- Collected physiological data of 40,000 patients.
- Built an LDA based Natural Language Topic Modelling system for Clinical notes.
- Experimented with various classifiers and achieved an AUC of 72%. Used Python & Apache Spark.

SHOPCAST - A MOBILE APP FOR SOCIAL SHOPPING | VIDEO

Feb 2016 – Apr 2016 | AppLab @ Georgia Tech

- Android, iOS app and a webapp for crowdsources shopping.
- Used MeteorJS, MongoDB.

STOCK PRICE PREDICTOR AND PORTFOLIO OPTIMIZER | CODE

Sep 2015 – Nov 2015 | Machine Learning for Trading @ Georgia Tech

- Used Python, Pandas to build a smart system that learns from historical Stock Market data and recommend trades for optimum gains (maximum Sharpe Ratio).

GOOGLE CLUSTER DATA ANALYSIS | PAPER | PRESENTATION

Mar 2016 – May 2016 | Distributed Data Intensive Systems Lab @ Georgia Tech

- Used Google BigQuery to analyze 29 days worth of Google Cluster trace data.
- Found trends in system usage and detected anomalies.