

RITWIK GUPTA

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in ritwikgupta

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Skills

LANGUAGES

Python

Java

Scala

Swift

MATLAB

C

TECHNOLOGIES

Apache Spark

Hadoop

Hive

Cassandra

Mesos

YARN

OpenMP

OpenMPI

TensorFlow

CUDA

Flask

Android

COURSEWORK

Computer Vision

Cloud Computing

Parallel Computing

Network Security

Compilers

Operating Systems

Data Structures/Algorithms

Computer Organization

Systems Programming

Discrete Mathematics

Linear Algebra

Calculus 1/2

Non-Parametric Statistics

Biology 1

Chemistry 1/2

STATISTICAL MACHINE LEARNING

Neural Networks

SVM

Linear/Logistic Regression

Hierarchical Clustering

Dimensionality Reduction

Kernel Methods

Education

University of Pittsburgh

BS Computer Science 2017

Related Areas: Math, Statistics, History

Employment

UPMC Enterprises

Software Engineer

Pittsburgh, PA
Nov 2016 to Apr 2017

Working on data coherency platforms and the IBM Watson AI XPrize. Worked on an R&D data visualization platform meant to provide high-fidelity, realtime ADT feed metrics across all hospitals in the UPMC Health System.

Apple

Data Science Intern

Cupertino, CA
May 2016 to Aug 2016

Applied Machine Learning team. Implementing clustering algorithms on a large dataset that requires deep feature selection and natural language processing.

Staples SparX/Staples Innovation Labs

Data Science Intern

San Mateo, CA
May 2015 to Aug 2015

Built recommender systems for Staples, the world's 2nd largest e-commerce retailer. Created models were put into production on Staples.com and emails, outperforming existent models. Utilized novel ML modeling using NLP techniques. Worked with Apache Spark, Hadoop, Mesos, YARN, and Python.

University of Pittsburgh (Chemistry)

Full-Stack/Mobile Developer

Pittsburgh, PA
Jan 2015 to Sep 2016

Developing the Pitt Quantum Repository, a web platform for molecular visualizations and data. PQR is currently in use by Pitt's general chemistry and biology classes. Working with Flask, Bootstrap, LESS, JavaScript, HTML, and Grunt.

Rectangle

Android Developer

Pittsburgh, PA
Jun 2014 to Current

Created PAT Track, an Android application to track the public buses of Pittsburgh in real-time. The app has over 35,000 users and is the one of the most popular bus tracking app in the region.

University of Pittsburgh (Biomedical Informatics)

Data Science Intern

Pittsburgh, PA
Jun 2014 to Sep 2014

Creating machine learning algorithms to categorize driver and passenger mutations given whole-genome data across various types of cancer. Worked with Python, Theano, nVidia CUDA, and Scikit.

University of Pittsburgh (Biomedical Informatics)

Research Intern

Pittsburgh, PA
Jun 2013 to Sep 2013

Analyzing the frequency and distribution of palindromes in the entire human genome, with focus on acute myeloid leukemia. Developed tools in Java, Python, HTML, JavaScript, and D3.

Awards

Pitt SmashMash Entrepreneurial Challenge · Winner

Nov 2014

Developed a business plan and application for a medical student-to-university healthcare startup.

NASA International SpaceApps Pittsburgh · Winner + Best Use of Data

Apr 2015

Created a tool that allowed scientists to better tag their data using Twitter.

Red Bull Hack The Hits · Winner

Apr 2016

Created a all-in-one string instrument using an Arduino and cardboard. Featured in Forbes magazine.

Publications

Distribution of Palindromes in the Human Genome. Ganapathiraju, Gupta, Cheng, and Hammond. Journal of Pathology Informatics. March 28, 2014. J Pathol Inform 2014, 1:12.