Rajat Garg

Computer Science & Engineering (B. Tech), IIT Kharagpur
rajatgarg149@gmail.com | 9039495856
rajatgarg149.github.io

EDUCATION

IIT Kharagpur
B.Tech in Computer Science
2018 | Kharagpur,West Bengal

Barfani Academy
10+2 Higher Secondary School
Indore,Madhya Pradesh

Gujarati Samaj School
Higher Secondary School
Indore,Madhya Pradesh

PROFILES

Github:// **rajatgarg149**
LinkedIn:// **rajat-garg-2212a5a1**

COURSEWORK

Deep Learning
Artificial Intelligence
Image Processing
Machine Learning
Operating Systems
Networks
Regression & Time Series
Software Engineering
Probability & Statistics
Linear Algebra
Algorithms
Programming and Data Structures

CERTIFICATES

Coursera
Machine Learning, Andrew Ng
License : **KFZKX48CSCWN**
Data Science Python, Michigan **(Spec.)**
License : **LM74P8XQFHUA**
Neural Networks & Deep Learning
License : **ZGDSA4CZ8ZZG**
Big Data Essentials: HDFS, MapReduce
and Spark RDD
License : **4UTZMTVLVY2Z**

SKILLS

Programming
Python • Java • C
C++ • R • Scala
HTML • CSS
MySQL • Spark

EXPERIENCE

Quantinsti | Researcher
May 2018 – Jul 2018 | Dec 2016 - Jan 2017 | Mumbai, India
- Design, develop and deploy an automated optimised technical pattern search 'charting' on stock data, flexible to update patterns and evaluates market.
- Documented and tested a well-built trading platform Quantra Blueshift.
- Stock Prediction using Recurrent Reinforcement Learning. Sharpe's ratio as reward function, M-previous returns as policy and trader function as action.

Samsung R & D, Bangalore | Summer Trainee
May 2017 – July 2017 | Bangalore, India
- Developed computational models for blood glucose monitoring through the Near Infrared (NIR) Spectroscopy, proving feasible non-invasive techniques.
- Multi-wavelength reflectance spectra were processed for computation.

PROJECTS

Company Network Prediction | Social Network Analysis
Jul 2018 – Sep 2018 | Prof. Daniel Romero
- Company email network mapped on networkx used to categorize department and management position salary and predicting future connections.
- Features created using scores for different graph algorithms like PageRank, etc.

Paraphrase Similarity Check | Applied Text Mining
Aug 2018 – Oct 2018 | Prof. V. G. Vinod
- Built paraphrase quality predictor with document path similarity method.
- Modelled corpus into a distribution of different topics, where a topic is a distribution over words.

Wikipedia Dump Processing | Big Data Essentials
Dec 2018 – Present | Mr. Alexey A. Dral
- Word count program to process Wikipedia dump using MapReduce.
- Most occurred collocations listed using npmi on bigrams in Wikipedia dump.

Interactive Custom Visualization | Applied Plotting
Sep 2018 – Dec 2018 | Prof. Christopher Brooks
- Built a custom visualization implementing bar coloring and adding onclick events interactivity for user threshold selection.
- Created subplots with shared axis to visualize multi-scaled Ann Arbor statistics.

Recommendation of Wiki Pages | Automated Web Scraping
May 2016 – June 2016 | Prof. Pawan Goyal
- Programmed an automated script which text mines the wikipages within the same category of given links and stores the tagwise processed information.
- Built parallel functioning operations using Apache Spark on top of the script performing text-search, word frequency count and similarity valuation.

AWARDS

2018	Special Mention	Radha Krishnan Hall of Residence
2017	Best Unrated	All India Chess Federation- Open Rating
2014	290th/1.5 lac	JEE-Advance
2010	Represented Madhya Pradesh	School Games Federation of India