

Rajat Garg

Computer Science & Engineering (B. Tech), IIT Kharagpur
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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

SKILLS

Programming

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

FrameWeork

Apache Spark
Django

EXPERIENCE

Quantinsti | CONTENT DEVELOPER & RESEARCHER

May 2018 – Jul 2018 | Dec 2017 – Jan 2018 | 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	290 th /1.5 lac	JEE-Advance
2010	Represented Madhya Pradesh	School Games Federation of India