

Rajat Garg

Computer Science & Engineering (B. Tech)
Indian Institute of Technology, Kharagpur

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EDUCATION

IIT Kharagpur

B.TECH IN COMPUTER SCIENCE
2018 | Kharagpur, West Bengal

PROFILES

Github:// [rajatgarg149](#)
LinkedIn:// [rajat-garg-2212a5a1](#)
HackerRank:// [rajatgarg149](#)

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, Stanford Online
License : KFZKX48CSCWN
Data Science Python, Michigan (Spec.)
License : LM74P8XQFHUA
Deep Learning, deeplearning.ai
License : ZGDSA4CZ8ZZG
Big Data Essentials, Yandex
License : 4UTZMTVLVY2Z

SKILLS

Programming

• Python • Java • C • C++
• R • Scala • Octave/MATLAB
• HTML • CSS • SQL

Framework

• Tensorflow • Keras
• Hadoop • Spark

Library

• sklearn • Gensim • NLTK
• networkX • matplotlib

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.

ACHIEVEMENTS

2014	290 th rank	JEE-Advance (Out of 150,000 students)
2010	Represented Madhya Pradesh	School Games Federation of India (Chess)