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
• netkworkX • 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.
- Calculated the topic distribution for new document using a modelled corpus.

Deep Neural Network | Deep Learning
May 2018 – Aug 2018 | Mr. Andrew Ng
- Built a L-layer deep neural network model from scratch with back-propagation.
- Tested the model on a image classification dataset with varying layers.

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