

Rishabh Gupta

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EDUCATION

Indian Institute of Science, Bangalore

M.Tech (CSA) guide: Prof. Chiranjib Bhattacharyya

CGPA: 9.0/10

Bengaluru, KA

2018 - 2020

Guru Ghasidas Vishwavidyalaya (Central University)

B.Tech (Computer Science and Engineering) guide: Prof. Nishant Behar

CGPA: 8.64/10

Bilaspur, CG

2014 - 2018

EXPERIENCE

Flipkart

Data Scientist

Bangalore

August 2020 - Present

- Part of Retail team. Working on E-invoicing project, developed ML model for extracting data from vendor invoices (Document AI).
- Previously was part of social commerce team and worked on comment moderation for live-stream (NLP).

LinkedIn

Summer Intern

Bangalore

May 2019 - July 2019

- Finding overlapping communities in LinkedIn's connection network and identifying the member features which are important for connection and community formation.
- Part of my MTech thesis, worked in the AI team.

IIT Bombay

Summer Intern

Mumbai

May 2017 - July 2017

- Worked in the project titled Gamification Framework (ekShikshaProject).
- Created a generalized framework which allows teachers to create game-based curriculum, which students can play and eventually learn at their own pace. This requires gamification of learning, by adding game features to the e-learning environment. It also required us to create web games to incorporate into it.
- Worked under the guidance of Prof D.B. Phatak
- Worked on Javascript, JSP, Three.js, Game Development

PROJECTS

Overlapping Community Detection and Network Analysis

MTech Project

May 2019 - July 2020

- Finding overlapping communities in a network using stochastic variational inference on a generative model.
- Uses assortative-Mixed membership stochastic blockmodel.
- Compared various other methods for finding overlapping communities.
- Analysing networks using these underlying communities and finding core and bridging nodes in the network.

Graph Representation Learning

Machine Learning Course Project

March 2019 - April 2019

- Explored different methods for embedding graph nodes like deepwalk, node2vec, etc.
- Performed various experiments like link prediction and label classification on real world datasets using those node embeddings.

Badminton Stroke Classification

Data Analytics Course Project

Nov 2019 - Dec 2019

- Detecting the class of badminton stroke from sensors' data.
- Time varying accelerometer and gyroscope sensor data from a device attached to player's wrist (similar to a smart watch).
- An end-to-end ML project, from collecting data and preprocessing to final model evaluation.
- Used classical ML techniques like random forests, gradient boosting, SVM, etc. and deep learning models for time-series data like LSTM and 1D CNN. (Using sklearn and tensorflow).

Topological Data Analysis on Dynamic graphs

Computational Geometry and Topology Course Project

Feb 2019 - April 2019

- Applied TDA on time-varying graphs. Extracting persistence diagrams of each snapshot and comparing their pairwise Bottleneck/Wasserstein distances.
- Obtained a timeline plotting first dimension of classical MDS against time for analysis. This gave us the insights of the variations in the data over time.
- Used TDA libraries like Gudhi, Dionysus 2, TDA package in R.

1D Landscape Profile

Computer Graphics and Visualization Course Project

Sept 2019 - Oct 2019

- Created a tool to construct landscape profile for any given augmented join tree extracted from a scalar field, clustering data, 3D model or any other domain. (used D3.js)

Feature Selection Using Genetic Algorithm

BTech Final Year Project

Jan 2018 - May 2018

- Reduced the number of features in a dataset using genetic algorithm as the optimization technique. Selected the suitable features while keeping the accuracy of the classifier as high as possible.

COURSES

- **IISc:** Practical Data Science, Machine Learning, Deep Learning, Computational Methods of Optimization, Data Analytics, Stochastic Models and Applications, Bioinformatics, Computational Geometry and Topology, Graphics and Visualization, Linear Algebra and Probability, Design and Analysis of Algorithms, Theory and Practice of System Security.
- **Online:** Probabilistic Graphical Models Specialization (Coursera), Deep Learning (IITM), Statistic (Udacity), Blockchain Basics (Coursera)

POSITIONS HELD

- Member of Sponsorship Team for CSA, IISc Open Day 2020.
- Placement coordinator, CSA IISc 2018-20 batch.
- Technical Adviser for coding events in Equilibrio 2017 (GGU TechFest), organised 4 events, managing a team of 20 members.

ACHIEVEMENTS

- Secured All India Rank - 2 among 107,893 candidates in GATE 2018 in Computer Science with a perfect score of 1000.
- Selected for ACM-ICPC Asia onsite regionals (Chennai) (2017)
- Secured 4th rank in Kurukshetra (RoboWar) event in OJASS'16-NIT Jamshedpur
- Secured 2nd rank in Vic-Toy-Rie (Line Follower) event in OJASS'16 - NIT Jamshedpur
- Secured 2nd rank in Line Follower event in Ignus'15 - IIT Jodhpur

REFERENCES LIST

- Prof. Chiranjib Bhattacharyya (IISc, Bangalore)