

Dhiraj Kumar

Education

2016–2020 **Indian Institute of Technology Kharagpur**,
BTech. Industrial and Systems Engineering, GPA: 9.33/10.

Work and Research Experience

- May 2019 - **MIT Computer Science and Artificial Intelligence Laboratory**, Visualization
July 2019 Group.
Guide: Prof. Arvind Satyanarayan
- Implemented and studied various visualization environments with native support for interaction and animations.
 - Developed various new features for the Vega Lite visualization language.
- April 2016 - **Google Summer of Code - Mozilla**, Iodide.
Aug 2016 Guide: Mr. Brendan Colloran
- Worked on Iodide - a browser based portable notebook for scientific computation.
 - Created a server component using Django to add features such as version control and revisioning system. Implemented various features using React Redux stack.
- June 2017 - **Complex Networks Research Group**, Department of CSE, IIT Kharagpur.
July 2017 Guide: Prof. Animesh Mukherjee and Prof. Pawan Goyal
- Worked on ACL Anthology Knowledge Graph, a project to better understand the research progress in Computational Linguistics community.
 - Developed CLScholar, an advance search portal that supports Natural Language Queries.
- July 2019 - **Udacity React Nanodegree Mentor**.
Present Remote and Part-time
- Responsible for mentoring students pursuing the React nanodegree by monitoring their progress and support them via 1:1 technical sessions.
- March 2019 - **WorldQuant LLC**, , Research Consultant.
Present Remote and Part-time
- Design and develop alpha strategies for maximizing profits for different portfolios.
 - To experiment with Statistical Arbitrage and work with Price and Volume Data.

Research Papers

- Feb 2018 **CL Scholar: The ACL Anthology Knowledge Graph Miner [link]**.
- Authored by Mayank Singh, **Dhiraj Barnwal**, Pradeep Dogga, Sohan Patro, Ritam Dutt, Rajarshi Halder, Pawan Goyal, Animesh Mukherjee
 - Accepted at [NAACL 2018](#) - (New Orleans, USA)

Activities and Achievements

- Jan 2019 Winner, Xilinx Innovation Challenge, Kshitij - Technical fest
- Sep 2018 2nd Runners up at Hack-a-bit Hackathon
- Apr 2019 Finalist, Top 6 in the Smart India Hackathon - Open Innovation
- Apr 2019 Recipient of IITKGP US Foundation scholarship
- Mar 2019 Executive Head, Kharagpur Open Source Society
- Dec 2018 Mentor, Kharagpur Winter of Code 2018