



# Vipul H Harihar

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## EDUCATION

### Columbia University

New York, NY

*Master of Science in Data Science*

Dec 2022

Relevant Coursework: Applied Machine Learning, Elements of Data Science, Computer Systems, Advanced Algorithms and Analysis

Honors: Data Science Department Representative, Professional Development & Leadership Fellow

### DIT University

Dehradun, IN

*Bachelor of Technology in Computer Science & Engineering with specialization in Big Data Analytics*

May 2020

(in Top 2% undergraduate students across all four years of education)

Honors: Computer Science Program Gold Medalist, University Bronze Medalist, Annual Academic Excellence Scholarship Recipient

## PROFESSIONAL EXPERIENCE

### GenTrust LLC

New York, NY

*Lead Software Engineer*

Feb 2023 - Present

- Currently completed entire cloud infrastructure development of GenTrust's Investment Platform on AWS cloud in 3 weeks

### GenTrust LLC

New York, NY

*Software Engineer Intern*

Aug 2022 - Dec 2022

- Assisted the CTO in managing 5 teams to develop and maintain investment systems for over 250 clients
- Improved the user interface for 300+ clients and investment users, and managed development of 3 trading tools for internal traders

### NewYork-Presbyterian - Children's Hospital, Columbia Medical Centre

New York, NY

*Research Assistant and Software Development Intern*

May 2022 - Jun 2022

- Designed a secure digital patient passport application with encryption in 43 days to streamline diagnosis documentation
- Rapidly deployed the application on AWS services in 2 days, increasing accessibility for 55 patients participating in research study

### IBM

Bangalore, IN

*Application Developer*

Feb 2021 - Aug 2021

- Proficient in managing and querying databases, with experience in MySQL and querying over 5500 records for a client project
- Successfully resolved data duplication issues by fixing over 45 bugs in the IBM Pre-Accounting Module
- Collaborated with a team of 3 senior software developers in IBM Sweden to migrate a software platform to the OpenShift Cloud

### IBM

Bangalore, IN

*Associate Systems Engineer*

Jan 2021 - Feb 2021

- Executed full-stack development tasks, data structures and algorithms, resulting in 9+ bug fixes on multiple internal projects at IBM
- Proactively invested in personal and professional development by obtaining 21 training certifications in Data Science, Python, and Application Development

- Demonstrated exceptional performance and leadership qualities, leading to a promotion within the 1<sup>st</sup> month of employment
- Demonstrated leadership by effectively supervising a team of 6 members to collect, clean, and analyze data for this social project

### IBM

Dehradun, IN

*Java Full Stack Developer Intern*

Feb 2020 - Jul 2020

- Designed and developed a food delivery app using Spring Boot to alleviate the COVID-19 food crisis for 22 restaurants
- Provided leadership and direction to a team of 5 interns in creating a statistics-based dashboard with regression models in 47 days
- Mentored the team in performing complex SQL joins on 20 data tables and executed regression analysis for project success

### Oil & Natural Gas Corporation Limited

Dehradun, IN

*Summer Scholar – Big Data Engineer Intern*

May 2019 - Jun 2019

- Scraped open-source data from 5 news websites using Python scripts, and applied filters to track trending keywords by Map-Reduce
- Pre-processed big data on Hadoop and utilized BigQuery (GCD) for 39 days to gain insights into oil and related news in the media.

## SKILLS & CERTIFICATIONS

**Programming Languages:** Java, Python, SQL, R, JavaScript, HTML, CSS, C, C++, and Shell Scripting

**Technological Skills:** Software Development, Machine and Deep Learning Models Deployment, GitHub, Data Analytics, DevOps, AWS

**Frameworks:** Model-View-Controller Infrastructure, Spring Boot, Flask, React, Angular, jQuery

**Databases:** MySQL, NoSQL, Oracle, DB2 and RDS - DBMS development (on AWS)

## PROJECTS & EXTRA CURRICULAR

**NYC Department of Design and Construction - Capstone Project ([Access the application here](#))**

Aug 2022 - Dec 2022

- Led a team of 6 in developing 8+ proactive approaches to repurpose 223+ wind blades using data science research
- Developed a Streamlit web application with 3 tools showcasing domain research findings using machine learning models

**Columbia University - Academic Projects ([Access the project presentations](#))**

Sep 2021 - Dec 2022

- Trained and deployed Multi-Classification Fraud Detection model on 12,454 credit card transactions
- Created Sentiment Analyzer and Emotion Detector on 1TB data using Deep Neural Networks to play songs based on detected mood

**Indian Roads Safety Campaign: Non-Government Organization – Policy Intern**

Jul 2020 - Dec 2020

- Successfully developed a dynamic reporting tool to classify 75.86 square miles of dangerous, accident-prone areas in Dehradun city
- Completed during the COVID-19 pandemic within 5 months, contributing to the efforts of an NGO to support residents