

Vipul H Harihar

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EDUCATION

Columbia University

Master of Science in Data Science, GPA: 3.6

New York, NY

Dec 2022

Courses: Applied Machine Learning, Deep Learning, Computer Systems, Advanced Data Structures and Algorithms

Honors: Department Representative, PDL Fellow, Best Data Science CA Award 2022 & 2023, Golden Graduate Marshal 2023

DIT University

Bachelor of Technology in Computer Science & Engineering, GPA: 9.62

Dehradun, IN

May 2020

Specialization in Big Data Analytics

Courses: Software Engineering, Artificial Intelligence, Relational Databases, Data Science, OOP, Engineering Mathematics

Honors: Computer Science Gold Medal & University Bronze Medal Recipient, Academic Excellence Scholarship every year

WORK EXPERIENCE

GenTrust Wealth and Assets Management Company

New York, NY

Senior Software Engineer

Aug 2022 - Present

- Guided 4 membered team in revamping investment platform infrastructure on AWS, emphasizing AI for 500+ clients
- Implemented advanced analytics for automated trade error detection and portfolios modified benchmarking, integrating 5 Python-based ML algorithms with existing systems saving 180 minutes daily for traders
- Honed client intake system, enhancing portfolio analysis via 4 automated data pipelines, onboarding 50+ clients

NYC Department of Design and Construction

New York, NY

Data Science Research Fellow - Capstone Project Lead

Sep 2022 - Dec 2022

- Utilized 15 GB data to design statistical models to predict carbon emissions for repurposing 70,800 wind turbine blades
- Led a 5-member team to develop a dynamic application for viewing carbon footprints generated by trained ML models
- Demonstrated proficiency in DevOps by deploying app on cloud at zero setup cost within an 8-day timeframe

NewYork-Presbyterian - Children's Hospital, Columbia Medical Center

New York, NY

Research Assistant

May 2022 - Jun 2022

- Engineered medical passport system for 79 cardiac patients, leveraging encryption to ensure data confidentiality on local storage
- Led 2 software development initiatives, mentoring fellow 3 research assistants in application-specific coding, and debugging

IBM (International Business Machines Corporation)

Bangalore, IN

Application Developer - Full Stack Engineer

Feb 2020 - Aug 2021

- Managed 10 developers, in migration of pre-accounting module to RedHat cloud, contributing to a 33% cost reduction
- Optimized 8 data flows for IBM Sweden team using CI/CD, resolving 5K+ data redundancies, saving time processing by 2 hours

Indian Roads Safety Campaign: Solve, MRTS- Government of India

Dehradun, IN

Software Engineer Intern

Jul 2020 - Dec 2020

- Empowered safety of over 16,000 commuters by devising road safety application for a non-government organization
- Guided a team of 4 during Covid in developing real-time data-driven models to identify 17 accident-prone areas in city

Oil and Natural Gas Corporation Limited (ONGC)

Dehradun, IN

Big Data Engineer Intern

May 2019 - Jun 2019

- Executed ethical scraping on 10 GB of data from 5 news websites using Python and conducted big data processing on Hadoop
- Built 5 data pipelines to assist 5 membered team to publish targeted posts based on extracted insights every week

LANGUAGE AND IT SKILLS

- Coding/Scripting: Python, Java, JavaScript, SQL, Shell, Bash
- Development: React, Node.js, Frontend, MVC Architecture, Backend APIs, CI/CD, Flask, Spring, Git-Version Control
- Data Engineering: Data Pipelines, ETL, Kafka, AWS, RedHat, OLAP, Cloud Data Warehouses (Google BigQuery)
- Data Science: Regression, Classification, Random Forests, Generative AI, NLP, Quantitative Analysis, Image Processing
- Data Visualization and Reporting: Matplotlib, Seaborn, ggplot2, Plotly.js, Power BI, IBM-Cognos, Tableau, Highcharts.js
- Knowledge: Streaming Technologies, AWS Services, Web Applications, Distributed System Design, Advanced DBMS