

Viraj Vhatkar

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EDUCATION

State University at New York, Buffalo

Buffalo, USA

Master of Science, Data Science

Graduation Date: December 2023

- Certifications: Tableau Data Viz Challenge 2021, AI for Medical Prognosis, Python Data Analysis, Neural Network and Deep Learning

PATENTS & PROJECTS

Apple Through My Eyes

- Gathered and synthesized data from diverse sources like Wikipedia and Kaggle using Pyscrappy and SQL, creating a refined dataset for analysis.
- Cleansed and transformed data meticulously (Python, NumPy, Pandas, MS Excel), investing time to eliminate duplicates, manage missing values, and mitigate outliers, elevating data quality for enhanced analytical utility.
- Created an engaging Tableau dashboard featuring strategic visualizations, facilitating the communication of key findings; integrated the dashboard into the project website and shared via LinkedIn to extend reach.

Lay Off Trend

- Utilized Python analytical libraries (NumPy, pandas, Plotly, math) and Kaggle to construct a data analysis project, visually depicting the repercussions of COVID-19 on layoffs across diverse sectors and cities in 2020.
- Orchestrated the fusion of React.js and CSS, enabling dynamic visualizations through D3 and Plotly, shedding light on the hardest-hit industries and geographic areas.
- Illustrated proficiency in economic analysis, data visualization, and continuous project refinement to enhance user interaction and engagement.

Medicine Waist Pouch - Patent

- Invented a wearable Smart Medicine Pouch, integrating a GSM module within its design to provide timely medication reminders through voice messages and text notifications, ensuring users adhere to their prescribed medication schedule.

Ogauge Pressure Transmitter Accuracy Test

- Led IoT-enabled O gauge Pressure Transmitter project, conducting Performance and Accuracy Tests integrated with Micro 820 PLC; analyzed time series pressure data, employed statistical parameters for reliability, and created predictive Auto-regressive models (MS Excel, Python, Scikit-learn) to enhance efficiency and reduce maintenance.

WORK EXPERIENCE

Photon Legal

Pune, India

Research Engineer

Feb 2022 - August 2022

- Collaborated with IP Group attorneys to analyze patent filings, develop effective patent strategies, and provide expert counseling on patent matters.
- Contributed to the successful filing of 12+ FER and OA for patents, while also supporting ongoing patent litigations for 6+ cases and multiple potential disputes.
- Played an integral role in obtaining trademark protection and ensuring a comprehensive understanding of patent and trademark filing processes.

Kaustubha Udyog

Pune, India

Instrumentation and Control Engineer

June 2021 - Jan2022

- Collaborated with a 5-member team to meticulously calibrate the Electronic O-gauge, identifying malfunctions across 5 testing phases for enhanced accuracy.
- Detected and resolved bugs in both the Mobile App and Dashboard algorithm, optimizing the user interface system for improved functionality.
- Conducted precise Accuracy tests at COEP's Instrumentation Lab and ensured adherence to quality standards, while actively participating in audits and regulatory inspections to ensure audit readiness.

SKILLS & INTERESTS

Skills: R Studio, Tableau, Python, SQL, C, C++, Java, SAP, ERP, IOT analytics, Data Analysis, React js, CSS, Matlab, Microsoft Office (Excel, Word, PowerPoint), Communication, Critical Thinking, Problem-solving,

Interests: Playing Cricket, Hiking, Cooking, Cycling