

SUMMARY

I am a spirited productive individual who is passionate about performance and optimization of a fault-tolerant code to make big impact on the future direction of industry, with expertise in unravelling the data to solve the business needs, experienced in Consultant Domain

SKILLS

- **Languages:** Python (Proficient), Java (Experienced), Go (Prior Experience), C (Prior Experience), JavaScript (Prior Experience)
- **Technologies:** PyTorch, Keras, Flask, Django, NodeJS, ReactJS, Prometheus, Jenkins, Docker, PostgreSQL, MongoDB, Hadoop, GitHub, Kubernetes, RabbitMQ, ETL, DynamoDB, AWS (S3, EC2, SQS, Lambda), Nginx

EXPERIENCE

- **Stevens Institute of Technology**, Grader Hoboken, NJ, Jan 2023 - Present
 - **MIS 634:** Helped in grading the weekly discussions, quiz, and assignments
- **Stevens Institute of Technology**, Graduate Teaching Assistant Hoboken, NJ, Aug 2022 - Dec 2022
 - **MIS 633:**
 - * Managed 11 teams of 50+ students throughout the course with proper assistance and correct feedback
 - * Conducted one-on-one sessions to guide the students better by understanding their strengths, weakness, interests
- **Truvisory**, Data Analyst Nagpur, India, Jun 2020 - Jul 2021
 - **Internal Advertising Algorithm Development:**
 - * Accomplished **7%** increase in profits by Predictive Analytics by working with variety of Machine Learning techniques
 - * Improved accuracy of algorithm by **10%** through cleaning and integrating data in efficient, reusable manner
 - * Motivated an intern on working with cross-functional teams, concurrently working with other projects
 - **Automation Project for financial services company:**
 - * Deployed tooling application for automation and monitoring of mission critical processes using Docker, AWS.
 - * Incorporated strong analytical, troubleshooting skills into testing KPIs and in learning new technologies
- **Truvisory**, Data Analyst Intern Nagpur, India, Jan 2020 - Jun 2020
 - **Automation Project for financial services company:**
 - * Maintained Agile Environment in developing the application with open-source frameworks such as Prometheus, NodeJS
 - * Demonstrated strong experience in solving complex problems using Python, SQL, NoSQL databases, Visualizations
- **Trivia Softwares**, Java Application Developer Thane, India, Jul 2019 - Sep 2019
 - **RMS:** Developed Resource Management System, invoice generation using CRUD operations utilizing Java 10, JDBC, PL/SQL, XML, Hibernate framework.

PROJECTS

- **Image Recognizer:** Built an ML application to recognize the drawn image and predicting the objects, used CoreMLTools to bind the algorithm into MLModel for SwiftUI, Python, Keras with an accuracy of 89% through data cleaning, normalization.
- **Echo:** Implemented a Full Stack Social Media application with real-time search engine, post recommendation, worked on the client-side routing, user sign-in page, UI experience using Express, React, Redux, MongoDB with CRUD operations on profiles.
- **Media Downloader:** Introduced a Python Application to stream/download any media over the internet with best video quality, best audio using DASH Stream, audio output is processed/mixed to enhance the overall quality using FFmpeg.

PUBLICATIONS

- **Tarun Chawla** and Rupali Hande. Equity Portfolio Generation and Optimization: A Data Mining algorithm for predicting changes in the Stock Market. The paper gave insights into whether a stock trend can be predicted using the abnormalities of the historical financial data (in this case, tick data) or not. *Equity Portfolio Generation and Optimization Using Machine Learning, Volume 9, Issue 1 January 2021, ISSN: 2320-2882, Pages 99-106, 2021*

EDUCATION

- **Stevens Institute of Technology** Hoboken, NJ
Master of Science in Information Systems; GPA: 3.89/4.0 Aug. 2021 – May 2023
- **Mumbai University** Mumbai, India
Bachelor of Engineering in Computer Science; GPA: 9.19/10.0 Aug. 2017 – May 2021