VIVEK GUPTA

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EDUCATION

Rochester, NY, USA	Rochester Institute of Technology	Fall 2019 - Present

- **M.S** in **Computer Science**. GPA: **3.8/4.0**
- Graduate Coursework: Algorithms and Data Structures; Advanced Programming Skills; Distributed Systems; Big Data Analytics; Machine Learning; Deep Learning; Data Analytics Cognitive Computing; Computer Vision

Mumbai, India	University of Mumbai	June 2012 – May 2016

- **B.E** in **Information Technology**. GPA: **7.4/10**

SKILLS

Java, Python, SQL, MongoDb, Pandas, Numpy , HTML, Git	★★★★★
Sklearn, Matplotlib, React, NodeJs, ExpressJs, Jquery, Javascript, REST, JSON, QTP/UFT, CSS	★★★★
Spring, Flask, Firebase, C++, Matlab, Pytorch, vb script, QTP/UFT, Excel, Bootstrap, Heroku, Jira, ALM, GraphQL, Linux	★★★

WORK EXPERIENCE

Research Assistant	Rochester Institute of Technology	Jan 2021 – Present

- Built a web-based **data mining learning platform** to allow non-technical users to perform DM tasks without coding anything
- Wrapped the ML models into RESTful API's to allow users perform data cleaning, visualizations, and prediction tasks
- Implemented functionality to display code used for a DM task as well as documentation to help users understand those concepts
- **Utilized:** React, Flask, pandas, numpy, scikit-learn, matplotlib, cufflinks, Bootstrap, Tailwind

Software Engineer in Test	BNP Paribas, ISPL	June 2016- July 2019

- Reduced execution time of automation scripts by **34%** by **re-engineering the framework**, test plan, and scripts.
- Developed **wrapper libraries** in java to test functionalities via API, eliminating the need for GUI-based testing and improved the execution time of scripts by **60%**.
- Wrote **complex SQL queries** that benefited the team to analyze test cases efficiently and report bugs.
- **Leveraged knowledge** in QTP/UFT framework, programmed in VBScript and java, project management using ALM, Jira, and Excel, functional knowledge in banking domain regarding financial instruments, regulations.

Software Developer, Intern	Red Panda Innovation Labs(startup)	June 2015 – August 2015

- Developed the **payment gateway flow** in Java for '**Now Cabs'** application - a cab aggregator startup in Mumbai
- Underwent a two-month **training** in the **Spring framework**. Discovered and fixed critical bugs on network latency.
- **Leveraged knowledge** in Spring framework, testing in Junit, version control in Git, programmed in Java

PROJECTS

Personal Website: https://vg4838.github.io/portfolio/ **(for additional information and projects access)**

Crown Clothing E-commerce App — *Online clothing e-commerce full-stack web application*
- Designed e-commerce shopping website in **React** having a shop, add to cart and checkout functionality and deployed on **heroku**
- Implemented authentication using **Firebase** and integrated **stripe** API to process payments using nodejs
- **Leveraged knowledge** in React basics, react routers, Redux, Redux-Saga, context API, hooks, Sass
- **Utilized:** React, Firebase, Stripe API, nodejs, HTML, CSS, JSX, Heroku

Covid-19 Data Analysis & Prediction — *Exploratory Data Analysis and prediction using ML algorithms on COVID-19 data*
- Implemented **data preparation** (merging datasets from different sources**), data cleaning,** and **data visualization** tasks.
- Applied Time series (**ARIMA**) and **decision tree** machine learning algorithms to predict the number of **affected cases** and **death cases** for upcoming weeks and analyze the risk-prone areas so that precautions can be taken in advance
- **Utilized:** Python, Pandas, Numpy, Sklearn, Matplotlib, Seaborn, Cufflink

Sentiment Analysis of product reviews — *Flask app to identify polarity of reviews and good/bad features of product using ML*
- Developed **web-scraper** to retrieve reviews from Flipkart website for the product searched
- Performed pre-processing of reviews using **nltk** library and applied machine learning algorithms to classify the polarity of the reviews with above **85%** accuracy and identify the key features of the product that users liked or disliked
- **Utilized:** Python, Flask, NLTK, Sklearn, Pandas, Numpy, HTML, CSS

Cursor movement using hand gesture — *A computer vision application to control cursor operations in Python*
- Applied computer vision methodologies like object segmentation, morphology, and edge detection to perform mouse operations, scroll, and free cursor movement.
- **Utilized:** AutoPyGui and OpenCV libraries in python