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 s/w developers to incorporate models in their project easily
- Created help center and code log functionality to display backend code to help users understand concepts and code for that task
- **Utilized:** React, Flask, pandas, numpy, scikit-learn, matplotlib, cufflinks

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 C++ 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 C++, 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