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**

EMPLOYMENT

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%**.
- Implemented **continuous integration** testing by **creating a tool** that extracts and tests possible affected test scripts in advance which reduced the testing scope by **12%** in releases.
- 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

Crown Clothing E-commerce App — *Online clothing e-commerce full-stack web application*

- Designed **shop, contact,** and **sign-in** pages. Added **navigation** and **routing** to different pages and categories of clothing
- Implemented add to cart and checkout features and show live updates between the pages
- Integrated **Stripe API** to process payments and **Firebase** to handle **storage** and **authentication** (sign in with google or email)
- Implemented the app as Progressive Web App(PWA) and performed testing using jest library.
- **Leveraged knowledge** in **React** basics, react routers, **Redux**, Redux-Saga, context API, hooks, CSS in javascript
- **Utilized:** React, Firebase, Stripe API, GraphQL, HTML, CSS, JSX, Heroku

Covid-19 Data Analysis & Prediction — *Exploratory Data Analysis and prediction using ML algorithms on COVID-19 data*

- **Merged the dataset** from three different sources and applied **data cleaning** strategies
- Performed **visualizations** using Matplotlib, Seaborn, and Cufflinks libraries
- Applied Time series (**ARIMA**) and **decision tree** machine learning algorithms to **predict** the number of **affected cases** for upcoming weeks and analyze the risk-prone areas
- **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** libraries stopwords, WordNetLemmatizer, and tag classes
- Applied **Naïve Bayes and K-Nearest Neighbor** 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

SKILLS

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