

VIRAL PATEL

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PROFESSIONAL SUMMARY

- Passionate, flexible and adaptable to learn and explore skills every day. Humble and motivated professional with an overall experience of 2 years in Software Development, Data Science, Machine Learning and Web Development domains. Strong understanding and knowledge of Algorithms and Data Structures.

EDUCATION

Master of Systems Science, University of Ottawa, Ontario, Canada Expected- December 2020

- **Coursework:** System Optimization and Management, System Integration, Artificial Intelligence, Modelling and Simulation, Mobile Commerce
- GPA: 3.48/4

Bachelor of Engineering in Computer Engineering, Indus University, Gujarat, India May 2019

- **Coursework:** Data Structure, Database Management System, Data Mining, Object Oriented Programming, Web Development,
- GPA: 9.57/10

EXPERIENCE

Data Science Intern at KataniTECH, Ottawa, ON April 2020 – August 2020

- Worked closely with the founder of the Startup and the other team members to brainstorm, develop and implement required features.
- I have given my contribution to the back-end part.
- Extracted data using tweeter API to perform Data Analysis, collected tweets of the user from different regions.
- Worked on **AWS** and **MongoDB** services for Database Management and cloud deployment.

Machine Learning Intern at Physical Research Laboratory (PRL), India February 2019 – May 2019

- Worked under the guidance of the Scientist and developed a program to demonstrate the use of Machine Learning into ongoing research to find chemicals on the lunar surface.
- Performed Dataset Formation, Graph plotting and Map creation in MATLAB.
- Implementation of Machine Learning algorithms to perform **Classification** on the lunar surface's **Multispectral data**.
- Support Vector Machine captured accurate features among all other classification algorithms.

Software Intern at Ivory Techno Lab Pvt. Ltd, India January 2018 – July 2018

- Performed Web development using **WordPress**
- Communication with clients to understand their issues and got positive work feedback.
- Worked on projects using HTML/CSS and SQL languages.

Web Development Intern at Capacity Web Solutions Pvt. Ltd, India January 2017 – July 2017

- Performed Web development using **Joomla**.
- Deployed Websites in a Team, Given Best Teamwork honor for one project.
- Maintained Client Dataset using Microsoft Office tools.

SKILLS

- **Programming Languages:** Python, JAVA, C++, C, SQL
- **Database:** MySQL, MongoDB
- **Web Technologies:** HTML, CSS, Bootstrap, PHP, WordPress, Joomla
- **Frameworks and Tools:** Django, VScodeEditor, Jupyter, Eclipse, GitHub, JIRA, MATLAB, Android Studio
- **Libraries:** Scikit-Learn, Numpy, Panda, Keras, Matplotlib, OpenCV, PyQt5
- **Management:** Teamwork, Leadership, Fluent in Communication, Time Punctual, Presentation, Self-motivated, Eagerness, Enthusiasm,

ACADEMIC PROJECTS

Mouse Cursor Controller Using Facial Gestures (Python, Numpy, Pyautogui, CV2)

- The main idea is to replace the traditional mouse with the **human face and eye movements** to **interact** with the Computer.
- Enables impaired people to experience a broad variety of computing activities.

Quantitative Calculation of Energy Consumption of Residential Buildings Using Statistical Machine Learning Method

(Python, SKlearn, Numpy, Pandas, Keras)

- Performed: Data Exploration, Statistical Analysis, Feature Detection, Regression and Classification
- **Random Forest** algorithm proved the best estimator for Heating load and Cooling load.

NotesApp (Android Studio)

- Developed an application which is useful to make notes.
- Implemented Features: **Share a note, Search content.**

SM Rentals (Java, AOSimulationModel, Eclipse)

- Developed a Program subject to a Rental Company who Provides Car Rentals to Airplane Clientele.
- Achieved an average **90% Customer Satisfaction** rate with Service Time using **Heuristic Strategy**.

Classification and Mapping of Lunar Basalt Units' – (Python, MATLAB)

- Applied **Supervised and Unsupervised Classification** methods of Machine Learning on Multispectral data of Moon surface to find hydroxyl (OH) molecules
- Studied on existing approaches and analyzed Classification methods

ATM simulation (Java)

- Created an ATM system including all banking functionalities such as withdraw and deposit money, Transaction alert through Email.

CERTIFICATION

- What is Data Science? By IBM, Coursera
- Programming Foundation: Algorithms by Linkedin Learning
- Programming Foundation: Design Patterns by Linkedin Learning
- Learning Django by Linkedin Learning
- Received 'JAVA Training' certificate by IIT Bombay.

SCHOLARSHIP

- International Student Bursary during the entire master's program (2019-2020)
- Government Scholarship during the entire four years of bachelors for having more than 90 percentiles in science stream (2015-2019)

EXTRA CURRICULAR ACTIVITIES

- Team member of the Cricket team of Computer Branch during entire bachelors
- Participated in Coding Events and Seminars
- Problem-Solving on Competitive Platforms as Hackerrank

LANGUAGE KNOWN

- English, Hindi, Gujarati