

VIRAL PATEL

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EDUCATION

Master of Systems Science, University of Ottawa, Ontario. Expected- **Dec 2020**

- **Coursework:** System Optimization and Management, System Integration, Artificial Intelligence, Modelling and Simulation

Bachelor of Engineering in Computer Engineering, Indus University, India
CGPA (9.57/10) **May 2019**

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

SKILLS

- **Programming Languages:** Python, JAVA, C++, C
- **Web Technologies:** HTML, CSS, JSP, PHP, WordPress, Joomla
- **Domains:** Data Science, Machine Learning, Web Development, Android Application Development
- **IDE:** Spyder, Eclipse, Jupyter, GitHub, PyCharm, MongoDB Compass
- **Libraries:** Scikit-Learn, Numpy, Panda, Matplotlib, OpenCV, PyQt5
- **Technology:** MATLAB, Android Studio, MongoDB, Django

CERTIFICATION

- What is Data Science? by Coursera
- Programming Foundation: Algorithms by LinkedIn Learning
- Programming Foundation: Design Patterns by LinkedIn Learning
- Learning Django by LinkedIn Learning

SCHOLARSHIP

- International Student Bursary during Masters program. 2019-2020
- MYSY: Received half tuition fees during bachelors. 2015-2019

INTERNSHIP EXPERIENCE

Data Science Intern at KataniTECH, Ottawa-ON Apr 2020 - Present

- KataniTECH is developing a digital “**Trend Predictive and Intelligent**” tool for the Fashion Retail Industry Using **AI and data science**: constructing algorithm framework (Image sourcing, labeling, and training the model).
- Programming: Developing a client web platform for retail clients.
- I am giving my contribution on back-end side. Working on **AWS** and **MongoDB** services.

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

- Implementation of Machine Learning algorithms to perform **Classification** on lunar surface’s **Multispectral data**
- Performed **Image Processing** using **MATLAB**

Software Intern at Ivory Techno Lab Pvt. Ltd, In Jan 2018 – Apr 2018

- Technology: HTML, CSS, PHP, MySQL
- Web development using **WordPress** and **Joomla** framework
- Solved critical client-side problems
- Worked at **front-end** side environment

ACADEMIC PROJECTS

SM Rentals (JAVA, AOSimulationModel, Eclipse) Jan 2020 – Apr 2020

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

NotesApp (Android Studio, Java) Jan 2020 – Feb 2020

- Developed a Notes taking Application for Android device.
- Features: **Share Note**, **Search** Content in a Particular Note.

Effective Quantitative Calculation of Energy Consumption of Residential Buildings Using Statistical Machine Learning Method (Python, SKlearn, Numpy, Pandas, Keras) Oct 2019 – Dec 2019

- The results of this study endorse the possibility of using machine learning software to approximate building parameters as a simple and reliable solution, given that the required application is identical to the data used to train the mathematical model in the first place.
- We contemplate using the proposed method as an easy, off - the-shelf solution to obtain accurate estimates of heating load and cooling load.

Classification and Mapping of Lunar Basalt Units using Machine Learning Techniques(Python, SKlearn) Feb 2019 – Apr 2019

- Applied **Supervised** and **Unsupervised** Classification Methods of Machine Learning on the Dataset of **Chandrayan-1** retrieved from **NASA**. Dataset: **Multispectral** data of Moon surface.
- Outcome: Classified Moon surface into **16** different **classes** using **SVM** method where each class has a unique feature based on chemical composition.