

# Affrin Sultana

Vancouver, BC

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## EDUCATION:

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### Master of Data Science

University of British Columbia, Vancouver, BC

Sept 2021 – June 2022

[Grade – A+]

- **Relevant Coursework:** Supervised Machine Learning, Unsupervised Learning, Software Development, Databases & Visualization, Cloud Computing, Feature and Model Selection, Statistical Inference and Computation, Experimentation and Causal Inference, Regression, Ethics & Privacy.

### Bachelor of Technology in Electrical and Electronics Engineering

Veer Surendra Sai University of Technology, Odisha, India

Jul 2012 - May 2016

[CGPA-9.43/10]

## ACADEMIC PROJECTS:

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### [Cost-of-living-expense-comparison Dashboard](#)

Mar – Apr 2022

- Built an interactive [dashboard](#) using **Dash Python/R** to help new college graduates explore the cost of living in major cities around the world.
- Deployed using **Heroku** app.

### [Pystockwatch](#) / [Rstockwatch](#)

Jan - Feb 2022

- Created a package in python [Pystockwatch](#) and its corresponding library in R [Rstockwatch](#)
- This package aims to provide a simple interface for checking movements in stock prices in comparison to benchmarks specifically catering to help newbies in the world of investment.
- Implemented this package using python scripts in poetry, pytest, sphinx and code coverage for python

### [Census Income Prediction](#)

Nov - Dec 2021

- Analyzed impact of demographic features on the annual income of an individual for over 48k transactions.
- Built a classification model using the Random Forest Classifier algorithm to predict whether a person's annual income will be greater than 50K USD or not.
- Implemented modular programming practices and ensured model reproducibility using **Makefile** and **Docker** containerization.

## PROFESSIONAL EXPERIENCE:

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### Deloitte Consulting India Pvt. Ltd, Hyderabad, India

Nov 2016 - Aug 2021

#### Consultant

- Developed an integration engine for a leading E&R Industry to automate the weekly tracking of expense and labor costs, bringing down the operation time and manual effort of 5 people 45 hours per week to 20 minutes.
- Successfully implemented 100% in-sprint automation in Java using the Selenium tool and performed conversion end-to-end testing for various entities for a US-based Health Care Insurance Company. Reduced turnaround time from 2 days to 2 hours.
- Analyzed and built business intelligence (BI) reports to increase operations efficiency by 25% using Oracle BI Publisher Tool.
- Programmed backend API s for client's e-commerce website resulting in the multiplication of sales of the products by 20%.

## TECHNICAL SKILLS:

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- **Programming Languages & Tools:** Python, R, SQL, NoSQL (MongoDB), HTML/CSS
- **Frameworks:** Pandas, Numpy, Scikit-learn, Matplotlib, Seaborn, Altair, **Pytorch**, **TensorFlow**, **Flask**
- **Other Skills:** AWS, **Git**, **Docker**, **Tableau**, Oracle 11g, Robotic Process Automation, Unix, MS Excel