

# Yadvendar Singh

Calgary, Alberta

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## SUMMARY

Strategically oriented Data Analyst, pursuing a Master's in Electrical and Computer Engineering. Previous 1-year of experience as a Data Analyst, which includes proficiency in RStudio and Python. Data Analyst with a passion for data-driven development and success in managing projects using Git. Dedicated to driving innovation with the ability to follow industry and technological trends and facilitating early adoption of innovations, currently seeking full-time opportunities.

## EDUCATION

**Master's in Electrical and Computer Engineering (GPA 3.7)**

2019 – Apr 2021

University of Calgary (Calgary, Canada)

### Related Project Work:

#### COVID-19 Early Risk Assessment (ongoing)

- Data Extraction of the COVID-19 data which correlates to critical risk factors using BeautifulSoup, and Alberta Innovates COVID-19 Hackathon API. Data Transformation and Visualization using Pandas, Numpy, seaborn, matplotlib, plotly, etc.
- Deployed COVID-19 SIR mathematical differential equation simulation model on AWS using Flask.
- Using NLP to parse text from a large number of scientific literature for clustering in combination with dimension reduction for visualization.
- Use of univariate logistics regression, SVM, XGboost, Arima model from stats to forecast the total number of confirmed cases with accuracy greater than 90%.

## WORK EXPERIENCE

### JUNIOR DEVELOPER

Present

TrustBIX (Edmonton)

- Creating BI Solution Architecture by integrating Microsoft Azure, Power BI, and Machine Learning to get insights through analytical dashboards, and operational reports.
- Creating Dataflows to set up a complete self-service ETL process, allowing the team to ingest data from multiple sources, transform it using Power Query, and deliver insight-rich decisions through the Power BI dashboard.
- Working on Creating, Configuring workflows designed in MS SQL Server Integration Services (SSIS).

### DEVELOPER

Present

Customer Maps (Calgary)

- Created and deployed fault-tolerant, highly reliable AWS bitnami stack for CriticalControl.com using WordPress Bitnami Stack, EC2, S3, Route53, IAM, ALB, Bastion Host, and WAF. Revampification of the website to give it technical inclination.
- Linux, and Apache Server hardening utilizing Best Practices. Load testing and Penetration testing of AWS architecture.
- Conducted an in-depth study of information from various data sources (data from web analytics, Google Analytics and external data) and provide valuable insights into factors influencing website's online performance.
- Creation of dashboards for senior management and various business units, and analysis of KPI's using Data Studio.

### TEACHING ASSISTANT

Dec 2019 – Apr 2020, Present

Physics (University of Calgary)

- Teaching Assistant with the responsibility of conducting laboratory sessions for 3 sections comprising of 24 students each and giving lectures on related topics.
- Troubleshooting technical issues related to hardware and software in the laboratory for the efficient operation of equipment. Designing and marking assignments, midterm, and final exam.

### DATA ANALYST

2018 - 2019

BMTC LOGISTICS (Delhi, India)

- Organized planned and prioritized the work, analyzed data, and communicated it with supervisors, and subordinates. Hands-on experience with R Studio, where I had worked on financial data and statistical data, which constituted of gathering, filtering, and making data presentable to the clients using ggplot2 library along with qplot in R.
- Data Modelling is based on requirements provided by the originators which can be accessed by customers through a system-based console using MySQL. ETL and data warehousing using Infor application.
- Hands-on experience with some of the most popular functions of Excel's (SUM, VLOOKUP, IF, AVERAGE, INDEX/MATCH). Managed large sets of data and created a dynamic report using pivot tools. Blended and transformed raw data into professional-quality reports using Power BI. Reduced wastage rate ~15% for the products that were in less demand.

## SKILLS

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- Worked on planning and principles, implementation and data collection, configuration, and administration using reports, metrics, and dimensions using Google Analytics. Passed GAIQ certification (98%).
- Worked on AWS ECS, Fargate for implementing container services, S3 bucket creation, policies, and the IAM role-based policies. Passed AWS Cloud Practitioner Certification (908/1000), and AWS Solution Architect Certification (832/1000).
- Proficient with data analytics programming languages such as R, Python, and VBA with a major emphasis on forecasting and projection-based quantitative analytics.
- Efficient use of quantitative analysis to develop key performance indicators which decreased wastage rate by ~ 15%.
- Demonstrated face detection and signature authentication program using NumPy, pandas, and Matplotlib with 93% accuracy which exceeded performance expectations.
- Created 3 portfolios and 2 games, fully responsive for Cross-Browser Operability using HTML, CSS, Bootstrap, JavaScript, Express.js with Node.js, and React.js. Data Normalization and Query optimization using MySQL.
- Developed RESTAPI using Python Flask for survey application. Used SQLAlchemy along with Query optimization to query the database. Testing of API was done using Postman.
- Designed fully responsive landing pages for a Game company and Metal Trading startup([www.aspiretradinginc.com](http://www.aspiretradinginc.com) ).
- Developed web portfolio in 24 hours for HackathonCalgary2020 using JavaScript, Node.js, and HTML & CSS, which required effective allocation of time resources along with the better implementation of the concepts as a team.
- Developed and hosted websites using WordPress, Elementor, WPBakery, and GoDaddy.
- The advancement of technology creates an influx of new ideas which helped me learn new technologies including Git, React.js, and machine learning.
- Solid analytical skills along with problem-solving skills gained from various competitive programming challenges.
- Strong Interpersonal skills allowing me to work proactively alone or as part of a team, and efficient time management skills for providing superior results under high-pressure situations.
- Customer service skills gained from various part-time roles which include Fulfillment Associate role at Walmart and Front Desk Associate at Aramark.

## HONORS/AWARDS

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- Google Analytics Individual Qualification certified.
- Certified AWS Cloud Practitioner, and AWS Solutions Architect.
- LinkedIn AWS, R, Git, MySQL, HTML, CSS, JavaScript, and Excel Certified.
- 4 Stars in Python, MySQL, and JavaScript on Hacker rank.
- Microsoft SQL server certification from Udemy.
- Scrum Master and Agile Scrum Training certificate from Udemy.
- Completed multiple projects on Kaggle.
- Prime Minister Scholarship, 2016 & 2017.

## EXTRACURRICULAR/ VOLUNTEERING

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- Web Scrapping of many websites (John Hopkins University, Billboard, Amazon, YouTube API, etc.) using Beautiful Soup and urllib in python. The collected data was parsed as HTML and converted to CSV to visualize data for quantitative analysis. (YouTube Channel Link - <https://www.youtube.com/channel/UC8ZZb9wBfRmDk5N5j4xX-ow>).
- Volunteered for Micro-datathon organized by “data for good” group where I analyzed and cleaned the Calgary Homeless Foundation, Alberta shelter, CRA charity, and Alberta Grants data sets. The cleaned data sets were used for final datathon.
- Volunteered for undergrad student’s help desk which helped new students to get familiarized with University.
- Managed all the logistics services for Resonanz (Intra-collegiate cultural festival) as junior Coordinator (Logistics).
- Coordinated with 16 teams for volleyball matches at winter sports meet.
- Senior Coordinator (Public Relations) for Moksha (Intercollegiate cultural festival).