

SUSHANT DESHPANDE

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Profile Page: <https://sushant822.github.io/> | **GitHub:** <https://github.com/sushant822>

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Profile:

Full Stack Developer and Data Visualizer with a background in Mathematics and Computer Science. Graduated from University of Toronto's Data Analytics Bootcamp and Master of Science in Mathematics and Computer Science from University of Lethbridge. Experienced in building statistical, predictive, and machine learning models to solve critical problems and building powerful visualizations using PowerBI. Working knowledge of big data, AWS and PySpark. Team-oriented individual with strengths in interpersonal and communication skills and collaborating across diverse groups.

Technical Skills:

Languages: [Python](#), [R](#), [SQL](#), [JavaScript](#), [VBA](#)

Data Visualization: Power BI, [Tableau](#), [D3.js](#), Plot.ly, [Leaflet.js](#), [Matplotlib](#), Seaborn

SQL: [PostgreSQL](#), MongoDB, Microsoft SQL Server, AWS

Python: [PySpark](#), Pandas, NumPY, SciPy, TensorFlow, Keras, SQLAlchemy, Visual Studio Code, Apache Airflow

Excel: VBA, Macros, Pivot Tables/Charts, Index/Match VLOOKUP

Other: Jupyter Notebook, Amazon Web Services (AWS), Hadoop, [Heroku](#), Google Colab, [Bootstrap](#)

Professional Experience:

Full Stack Developer and Data Visualizer, Weigl Educational Publishers Ltd. – Canada May 2016 – Present

Key achievements:

- Attained 90% on yearly review and completed all projects within the set deadlines.
- Achieved 20% better results by providing actionable insights through data analysis and visualization.
- Supervised a team of 6 intern students every summer.

Responsibilities:

- Collected data from different sources (CSV, JSON, SQL Database, web, etc.), cleaned and analyzed it (using ETL processes) and created powerful visualizations and infographics (using PowerBI).
- Analyzed structured and unstructured data to identify problems and organize findings to translate into actionable insights using innovative techniques (using Python).
- Visualized sales and production data in PowerBI, generated reports, created dashboards using JavaScript, Leaflet and D3 and made presentations to be delivered to sales and management teams.
- Working on creating a full stack solution to build and deploy a model that can predict student grades based on their past performance (using Python and SQL).

Web Designer, AXON Data – India May 2013 – April 2016

Key achievements:

- Handled web design of 75% of client projects.
- Increased customer retention by 18%.

Responsibilities:

- Designed website layout/user interface by using standard HTML5/CSS/Bootstrap practices.
- Integrated data from various back-end services and SQL Database.
- Created custom graphics for clients with more than 90% client satisfaction score.

Web Developer, Weigl Educational Publishers Ltd. – Canada July 2010 – April 2013

Key achievements:

- Launched a new product (Digital Media Enhanced Books) within the set deadline.
- Achieved 25% increase in sales by designing and developing digital media for printed books.

Responsibilities:

- Designed and developed websites using CSS, HTML5, WordPress and Magento.
- Designed and developed Flash activities, Flipbooks, ReadAlongs and audiobooks using ActionScript 3 and HTML5.
- Developed and maintained SQL Database with inventory of books.

Projects:

Predicting Real Estate | <https://findhouseprice.herokuapp.com> | https://github.com/dayothompson/ML_Project

Summary: Created a machine learning web app. Collected data from websites using Python, build ETL pipelines to clean and transform the data, created database schemas to store data in PostgreSQL and AWS, built flask app to call and pass the data to frontend, built websites and visualizations based on the data using JavaScript and D3, trained the model in python using machine learning with 76% accuracy based on the data to predict the price of a property and deployed it to the frontend.

- **Responsibilities:** Created algorithms that scraped Remax and Walk Score websites and collected data using Python. Performed cleanup on this data and analyzed it. Build a Flask app and framed APIs to pass data stored in PostgreSQL and AWS (S3 bucket) to the Flask app as JSON. Generated visualizations for it using JavaScript, D3 and Leaflet. Constructed a machine model using Natural Language Processing and TensorFlow with more than 76% accuracy and deployed it successfully to website. Constantly working on tuning the model to improve its accuracy.
- **Number of team members:** Four

JavaScript Project | https://github.com/sushant822/javascript_project

Summary: Created a Flask app that will read data stored in SQL Database and pass it as a JSON file to the frontend. Build various visualizations using JavaScript, D3 and Leaflet.

- **Responsibilities:** Created algorithms that scraped Remax and Walk Score websites and collected data. Performed cleanup on this data and stored it in SQL Database. Created a Flask app and build APIs to pass data stored in SQL and NoSQL Database to the Flask app as JSON. Generated visualizations for it using JavaScript, D3 and Leaflet.
- **Number of team members:** Four

ETL Project | https://github.com/sushant822/etl_project

Summary: Web scraped Remax and Walk Score websites for house listings and walk, bike and transit score respectively. Cleaned the data, stored it SQL Databases and wrote queries and procedures to transform and load the data to frontend.

- **Responsibilities:** Created algorithms that scraped Remax website, collected data and performed data cleanup. Wrote SQL queries and procedures to transform and load the data.
- **Number of team members:** Four

COVID-19 Research | <https://github.com/sushant822/COVID-19>

Summary: This project sets out to answer 4 main questions: who was affected by the virus, which regions in Ontario were affected most, how was the virus contracted, and does weather conditions play a role in the spread of this virus in Toronto?

- **Responsibilities:** Analyzed the data and created powerful visualizations in Python using various libraries for it thereby making the data tell a visual story.
- **Number of team members:** Three

Education:

Microsoft Azure: Analyzing Data with Microsoft Power BI (In Progress)

Working towards getting certification in Analyzing Data with Microsoft Power BI

Data Analytics Bootcamp, Canada

University of Toronto

Masters of Science (M.Sc.), Canada

Masters of Science in Mathematics and Computer Science (Linear Algebra and Combinatory Logic); University of Lethbridge

Bachelor of Engineering (B.E.), India

Bachelor of Engineering in Computer Science; Rajiv Gandhi Technical University

Awards:

- Awarded with University of Lethbridge Scholarship for getting A grade in Lambda Calculus course.
- Awarded with University of Lethbridge International Research Award for performing outstanding research in the field of Lambda Calculus and Combinatory Logic.
- Consistently recognized by supervisor for demonstrating excellent teamwork and strategic thinking skills.
- Graduated Data Analytics from the University of Toronto with an A+ grade.

Publications:

- A new program in combinatory logic equivalent to $\lambda\beta$ -reduction.
- Contributed significantly in chapters 'The undecidability theorem' and 'Correspondence between λ and CL' of Lambda-Calculus and Combinators: An Introduction.