Akshat Thakur

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Education

Bachelor of Science: **Statistics** (with a thematic concentration in **Computer Science**) - 2017 to Present
University of British Columbia, Vancouver

- Recipient of International Merit Entrance Scholarship (64000 CAD)
- Awarded Outstanding International Student (14000 CAD)

Skills

Data Science and Analysis - R (tidyverse, ggplot2, dplyr, tidyr, caret), Python (Pandas, NumPy, SciPy, PyTorch, scikit-learn), MATLAB, SQL, Oracle, JavaDB, Tableau, PowerBI, JupyterLab/Notebooks, Excel
Languages - Java, Python, C/C++, JavaScript/TypeScript
Web - React, HTML, CSS, Swing, JQuery
Tools/Frameworks - Git/GitHub, JUnit, Mocha/Chai
Other Relevant Skills - Microsoft Office, Google Analytics, UI/UX Design, Agile Development, SDLC, Communication, Leadership, Creative Problem Solving

Experience

Undergraduate Teaching Assistant - 09/2019 to 04/2020
UBC Department of Computer Science

- For CPSC 103, Introduction to Systematic Program Design (systematic problem solving with Python), a course with 2 sections of 285 undergraduate students each.
- Debugged over 10,000 lines of code every week.
- Mentored students through office hours and one-on-one communication, discussing topics such as code reviews, designing functions and programs and data visualization.

Digital Marketing Consultant - 04/2018 to 01/2019
Travel Tales

- Provided digital solutions to a Travel and Tourism business by adopting experiment design and A/B testing.
- Planned digitization, and created using JavaScript, CSS and HTML5, including e-commerce capability, specialized scripts, and RESTful web-apps built with Java.
- Built, implemented, and updated effective SEO strategies (with an emphasis on Google Analytics, Google Adwords and Facebook Ads metrics).
- Increased outreach and viewership by 70%, obtained 20 additional customers, reduced potential website maintenance costs by 85%.

Projects

Chronic Kidney Disease Prediction Model - R, tidyverse, ggplot2, Jupyter

- Created a prediction model trained on a dataset, containing attributes of a person's biological information and health based on medical tests to determine if a new patient is likely to have, or, in the future, develop Chronic Kidney Disease.
- Used data science libraries like tidyverse, ggplot2, etc. to read, clean and wrangle, analyze and visualize data, and summarize and visualize classification analysis.
- Trained with the health records for patients with and without CKD, the model accurately (over 98% of the time) predicted whether a 'new' patient has Chronic Kidney Disease or not.

Hotel Database - SQL, JDBC, Oracle, Swing, Java, JQuery

- Created a SQL database from scratch, implementing functionality for complex and nested queries.
- Used ER Diagrams, UML diagrams, Relational Schemas, Normalization to plan and create the best possible product.
- Stored relational schema in Oracle RDBMS, interfaced with JDBC SQL statements, and designed GUI using JQuery and Swing.

Scotiabank Hackathon 2019 - Python, Java

- Won 1st place in the hackathon (out of 15 teams).
- Assumed the role of Product Manager and team leader, and utilized product design, innovation, creativity, market research, statistics, tracking progress, delegation to design and implement (in Java and Python) a working proof of concept for a portable, VR-based product to be used for university campus hiring.

Leadership and Accomplishments

UBC Graphical and Architectural Design Club - President (2019-2020)
Jam for Justice UBC Chapter - Vice President, Communications (2017-2018)
Published Author of two books (Blossom Fell, Till My Lungs Bleed) and several poems published in international magazines