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, MySQL
Web - Vue.js, HTML, CSS, Swing, JQuery
Tools/Frameworks - Git/GitHub, JUnit, Mocha/Chai
Other Relevant Skills - Natural Language Processing, Sentiment Analysis, Microsoft Office, Google Analytics, UI/UX Design, Agile Development, SDLC, Communication, Leadership, Creative Problem Solving

Experience

Undergraduate Teaching Assistant - September 2019 to April 2020
UBC Department of Computer Science
- Taught 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.
- Taught and discussed numerous important computer science fundamentals such as code reviews, data structures, designing functions and programs, and data visualization.

Digital Marketing Consultant - April 2018 to January 2019
Travel Tales
- Provided digital solutions to a Travel and Tourism business, and reduced potential website maintenance costs by 85%, by adopting experiment design and A/B testing.
- Planned digitization, and developed a website using JavaScript, CSS and HTML5, including e-commerce capability, specialized scripts, and RESTful web-apps built with Java.
- Built, implemented, and updated effective SEO and advertising strategies (with an emphasis on Google Analytics, Google Adwords and Facebook Ads metrics) on a limited budget, and increased outreach and viewership by 70%, obtained 20 additional customers.

Projects

Chronic Kidney Disease Prediction Model - R, tidyverse, ggplot2, caret, dpylr, Jupyter
- Implemented a prediction model trained on a dataset with 400 instances, 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 many 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) three working proof of concepts for portable, VR-based products to be used for university campus hiring.

Leadership and Accomplishments

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