Ankur Bhardwaj

Combined Major in Computer Science and Statistics, 3rd Year

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Technical Skills

Languages: C/C++, Java, Python, HTML/CSS*, JavaScript, SQL, R, TypeScript.
Tools: Git, GitHub, Microsoft Excel, Tableau*, Terminal, PowerBI*, VSCode, Jupyter Hub, R Studio
Libraries: numpy, pandas, matplotlib, scikit-learn, seaborn, mysql.connector, JUnit, Swing

- currently acquiring

Technical Projects

Personal Website | *HTML, CSS, JavaScript*   Dec 2023
- Engineered an intuitive and user-friendly interface through HTML, CSS and JavaScript.
- Designed and developed a responsive website, ensuring a seamless user experience across various devices and screen sizes through Bootstrap framework.
- Integrated jQuery for enhanced user experience and Font Awesome for enhancing visual appeal.

Campus Capture | *TypeScript, JavaScript, HTML, CSS*   Sept 2023 – Nov 2023
- Emphasized efficient handling and storage of large datasets through asynchronous function calls.
- Leveraged technologies such as parse5, fs-extra and JSZip for parsing various file formats (zip, HTML, JSON) to enhance data retrieval capabilities.
- Conducted thorough testing (blackbox, unit, regression, integration, end-to-end) across four project phases focusing on backend development, HTML parsing feature addition, and frontend implementation with RESTful design using HTTP requests to a ExpressJS server.
- Engineered using collaborative development through weekly scrum meeting.

Fitness Tracker App | *Java, Swing, Junit, Git*   July 2022
- Engineered a fully functional GUI using basic Java libraries and Swing, allowing users to save and keep track of various aspects of their jogs.
- Added save and load functionality, allowing users to store and load and view the previous data.
- Integrated Event Log feature, tracking all features used by the user for improved user experience.

Library Database Management System | *Python, MySQL*   April 2021
- Created a fully functional database management system for a library to keep track of its books as well as help with other services such as issuing and returning of a book.
- Used MySQL to create a database to store the library data and accessed the books database using python libraries and performed the necessary operations.
- Supports multiple memberships for different users.

Statistical Projects

NYC Airbnb Regression Analysis | R, Regression, Model Selection   November 2023
- Analyzed data with over 49000 observations and 16 variables.
- Developed and validated the final regression model, achieving an adjusted R-squared of 0.676 and an AIC value of 26275.2.
- Demonstrated strong predictive accuracy through two-fold cross-validation, yielding a total error of 2.6365.

Greenest City Project – A Statistical Inference | *R, Hypothesis-testing, Git*   November 2022
- Conducted in-depth EDA including creation of multiple plots to visualize and analyze between the various predictor variables and target variables.
- Used the data collected by the Vancouver authority. Cleaned and filtered the data to incorporate the necessary explanatory variables.

- Conducted hypothesis testing at 5% significance level and provided our findings along with a proposed future plan.

K-NN Classification model | *R, KNN, Git*   March 2022

- Conducted in-depth EDA including creation of multiple plots to visualize and analyze between the various predictor variables and target variables.
- Employed Cross-Validation techniques to determine the optimal value of 'K' in the K-Nearest Neighbours (KNN) classification algorithm, ensuring best performance of the model.
- Orchestrated effective teamwork among four team members, with GitHub serving as the central hub for streamlined collaboration, version control, and synchronized code management.

Work Experience

Undergraduate Teaching Assistant | *University of British Columbia*   Sept 2023 – present

- Teaching assistant of statistics course: Elementary Statistics for Application.
- Demonstrated a strong ability to adapt teaching techniques to accommodate diverse learning styles and needs, resulting in improved student comprehension and performance.
- Independently conducted and supervised a lab of 36 students.
- Managed grading and provided constructive feedback to students on their work, facilitating their academic growth and encouraging continuous improvement.

Catering Associate | *AMS Nest Catering and Conferences*   *May* 2022 – Sept 2023

- Helped organize and set up events.
- Worked in a high pace environment with extensive teamwork.
- Gained experience to improve my customer service skills.

Additional Work Experience

Events and Outreach Director | *Undergraduate Statistics Society, UBC*   Jan 2023 – present

- Responsible for organizing and conducting events.
- Assisted the marketing team in promoting the events.
- Maintained communication with the sponsors and other clubs.

Intern | *Suman Packaging Pvt. Ltd*.   May 2021 – Aug 2021

- Interned at a corrugated boxes manufacturer company.
- Coordinated orders of the clients to the manufacturing team.
- Managed the finances of the business.
- Gained invaluable experience about workings of a business.

Volunteer | *Center for Urban and Regional Excellence*   Nov 2019 – Dec 2019

- Assisted with special events and programs.
- Maintained clean, neat, and operational facilities to serve program needs.
- Used strong interpersonal communication skills to convey information to others.
- Coordinated food, clothing and household items for disadvantaged individuals and families.

Hackathons

eProjects by Genesis   April 2022

- Participated in a hackathon by eProjects and created a product using the cold-cycle engine to help develop electricity from biogas for Genesis.
- Pitched my idea to the team of Genesis.
- This experience enhanced my market analysis, research, networking, and communication skills.

Education

Bachelor of Science, Combined Computer Science and Statistics, University of British Columbia

Vancouver, BC | Expected in May 2025

- Dean's Honour List with 3.9 GPA.