Sparsh Bajaj

GitHub.Sparsh | LinkedIn.Sparsh | sparshb96@gmail.com | +1(236)-513-2313

Experience

SightSage Food and Nutrition Inc. *Vancouver, BC*
Full Stack Developer June 2022 - August 2023

- Developed new website using React, TypeScript, and SASS on shopify, escalating traffic by 50%.
- Built RESTful APIs to allow for seamless communication between the website and the backend data.
- Developed and maintained dynamic landing pages with keen focus on SEO best practices through implementation of web analytics and tracking tags.
- Contributed to front-end development of Health Management application on React Native, utilizing Tailwind CSS for styling and Expo for cross-platform deployment on Android and iOS.

OTP Learning *Remote*
Web Developer Intern September 2021 - February 2022

- Leveraged HTML, CSS, JavaScript to enhance website UX, boosting user engagement by 20%.
- Built a secure backend for customer login portals using Node.js, Express.js, and MongoDB; integrated Passport.js for enhanced security, and enabled OAuth logins via Facebook and Google APIs.
- Managed code changes and collaborated with other developers using Git.
- Participated in code reviews to ensure code quality and adherence to coding standards.

IBD Centre of BC *Vanouver, Canada*
Data Analyst Intern May 2021 – August 2021

- Analyzed and extracted patient data using SQL queries from the hospital's Oracle Database.
- Designed data pipelines using Apache Airflow to automate data ETL processes, resulting in shortened processing from 7 hours to 50 minutes.
- Developed Python scripts to clean and preprocess raw data before feeding it into the pipeline.

Projects

Statistical Significance of Weather Patterns on Bike Rental Count Predictions

In this project, I collaborated with a team to develop a prediction model for bike sharing demand using the "Bike Sharing Dataset" from the UCI Machine Learning Repository. We utilized the R programming language and implemented Poisson Regression to model the count data (i.e., the number of bike rentals). The predictors included temperature, humidity, windspeed, year, whether it was a working day, and the weather situation. The Poisson Regression model allowed us to effectively predict bike rental demand and contribute to the optimization of the bike sharing system.

Education

University of British Columbia *Vancouver, BC*
Bachelor of Commerce | Sauder School of Business 2018 - 2023
Specialization: Business Technology Management and Business Analytics GPA: 3.8

Skills

Front-end: HTML, CSS, JavaScript, TypeScript, jQuery, React, React-Native.
Back-end: Node.js, Python, Ruby, PHP, Java, C#.
Databases: MySQL, PostgreSQL, MongoDB, Redis, Oracle RDBMS.
Frameworks: Express.js, Flask, Ruby on Rails, Tailwind CSS, Spring Boot, .NET, Django.